### () PIONEER. The Art of Entertainment

## Service Manual

DEH-P825R/EW



ORDER NO. CRT1805

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

## DEH-P825R

EW

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER

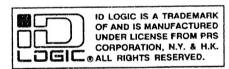
DEH-P825 uc

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

DEH-P823 es

MULTI-CD CONTROL CD PLAYER WITH ID-LOGIC TUNER

DEX-P99 uc





#### NOTE:

- See the service manual CX-597(CRT1811) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of CX-597 series.

#### **CONTENTS**

1.	SAFETY INFORMATION	2
2.	SPECIFICATIONS	3
3.	OPERATIONS AND CONNECTION	5
4.	DISASSEMBLY	9
5.	ADJUSTMENT	.10
6.	TEST MODE	.12
7.	IC INFORMATION	16

# 8. ELECTRICAL PARTS LIST 29 9. LCD 38 10. BLOCK DIAGRAM 41 11. CIRCUIT DIAGRAM AND PATTERN 43 12. EXPLODED VIEW AND PARTS LIST 82 13. PACKING METHOD 88

#### CD Player Service Precautions

- For pickup unit(CGY1070) handling,please refer to "Disassembly" (CX-597 Service Manual CRT1811).
   During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

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#### 1. SAFETY INFORMATION

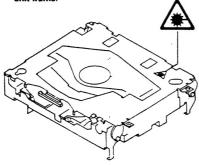
#### 1.1 (DEH-P825R/EW)

- 1. Safety Precautions for those who Service this Unit.
- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

#### Caution:

- 1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
- 2. During repair or tests, do not view laser beam for 10 seconds or longer.
- 2. A "CLASS 1 LASER PRODUCT" label is affixed to the rear of the player.
- 3. The triangular label is attached to the mechanism unit frame.





#### 4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.

Wavelength = 800 nanometers

#### 1.2 (DEH-P825/UC,DEX-P99/UC)

#### CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.

Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

#### 2. SPECIFICATIONS

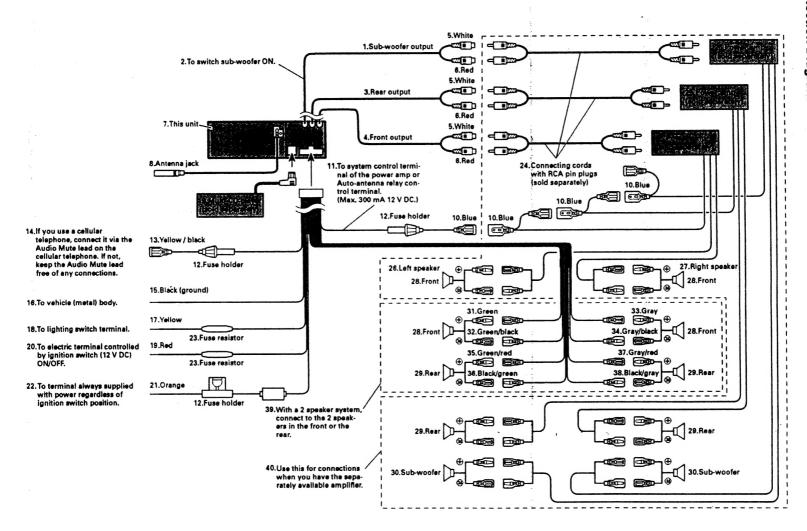
Dames course	R/EW)
Cdin-	Negative type
May augrent consum	pption 8.0 A
Dimensions	
(moun	ting size)
(moun	face)
(HOIL)	1.7 kg
O	5/UC, P823/ES, DEX-P99/UC)
General (DEH-P82:	14.4 V DC (10.8 — 15.1 V allowable)
Power source	Negative type
Grounding system .	Negative type  apption (DEH-P825/UC, P823/ES)
Max. current consum	aption (DEH-P825/UC, P825/ES)
Max. current consum	nption (DEX-P99/UC)
Dimensions	450 (II) - 50 (II) - 157 (D)
(DIN)	(chassis)
	[7 (W) $\times$ 2 (H) $\times$ 6-1/8 (D) in.]
	(nose)
	$[7-3/8 \text{ (W)} \times 2-1/4 \text{ (H)} \times 5/8 \text{ (D)} \text{ in.}]$
(D)	(chassis)
	$(7 \text{ (W)} \times 2 \text{ (H)} \times 6.3/8 \text{ (D) in.)}$
	(nose)
	$[6-3/4 \text{ (W)} \times 1-3/4 \text{ (H)} \times 3/8 \text{ (D) in.}]$
Weight (DEH-P825	nic persies) 1.7 kg (3.7 lbs)
Weight (DEY-P00/)	UC)
Maximum power of Continuous power of Continuous power of Load impedance Preout output level/Loudness contour  Amplifier (DEX-PS Maximum proot of Deautimproot of Deautimproot of Continuous Contin	Hz with no more than 5% THD (DEH-P825/UC, P823/ES).  https://demonstrations.com/demonstrations/
Equalizer  Tone controls (para  Frequency (	metric) 50 Hz, 80 Hz, 125 Hz, 200 H
	,110010/
	range ±12 d
Equalization	range ±12 di
Equalization Graphic Equalizer Frequency	range
Equalization Graphic Equalizer Frequency.  Equalization	range ±12 0.
Equalization Graphic Equalizer Frequency.  Equalization	range ±12 d.  50 Hz, 80 Hz, 125 Hz, 200 Hz, 315 Hz, 500 Hz  800 Hz, 1.25 kHz, 2 kHz, 3.15 kHz, 5 kHz, 8 kHz, 12.5 kHz  range ±12 d.
Equalization Graphic Equalizer Frequency  Equalization Sub-woofer output	range

00.1	
CD player —	
System	
Usable discs	Compact disc
Signal format	Number of question bits 16: linear
E	Number of quantization bits: 16; linear
Frequency characteristics	
Signal-to-noise ratio	94 dB (1 kHz) (1HF-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)
ANATumos (DEU DOSE (U.C. DEV DOS	(110)
AM Tuner (DEH-P825/UC, DEX-P99	/UC)
Frequency range	
Usable sensitivity	18 µV (25 dB) (5/N: 20 dB)
Selectivity	50 dB (±10 kHz)
AM Tuner (DEH-P823/ES)	520 1 710 1 11 (10 1 11 -)
Frequency range	
	531 — 1,602 kHz (9 kHz)
Usable sensitivity	18 µV (25 dB) (S/N: 20dB)
Selectivity	
	50 dB (±9 kHz)
FM tuner —	
Frequency range (DEH-P825R/EW, P823	/ES) 87.5 — 108 MHz
Frequency range (DEH-P825/UC, DEX-I	
Usable sensitivity	11 dBf (1.0 $\mu$ V/75 $\Omega$ , mono, S/N: 30 dB)
50 dB quieting sensitivity	
Signal-to-noise ratio	
Distortion	0.3% (at 65 dBf, I kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)
Selectivity (DEH-P825/UC, DEX-P99/U	C) 70 dB (2ACA)
Three-signal intermodulation	·
(desire signal level) (DEH-P825/UC, D	EX-P99/UC)
50	dBf (two undesire signal level: 110 dBf)
1011 1 DOOED (EVA	
MW tuner (DEH-P825R/EW) ———	501 1 500 LVI
Frequency range	531 — 1,602 kHz
Usable sensitivity	18 µV (25 dB) (5/N: 20 dB)
Selectivity	50 dB (±9 kHz)
LIM Annua (DELL DOCED/EMA	
LW tuner (DEH-P825R/EW)	152 221111
Frequency range	153 — 281 kHz
Usable sensitivity	
Selectivity	30 dB (±9 kHz)

Note: Specifications and the design are subject to possible modification without notice due to improvements.

# 3. OPERATIONS AND CONNECTION

# Connection Diagram



#### Audio Adjustment

#### **Balance Adjustment**

The function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

 Press the Shift button once to select the Fader/Balance mode.

"FAD" or "BAL" appears on the display.

After adjustment use the Shift button to return to the normal display.

Press the (+) or (▲) button or the (-) or (▼)
button to shift the balance progressively to
the front or rear speakers.

"FAD F25" ~ "FAD R25" is displayed as it moves from front to rear.

Note: "FAD 00" is the proper setting when 2 speakers are in use.

Press the (◄) or (◄◄) button or the (►)or
 button to shift the balance to the left or right speaker, respectively.

"BAL L25" ~ "BAL R25" is displayed as it moves from left to right.

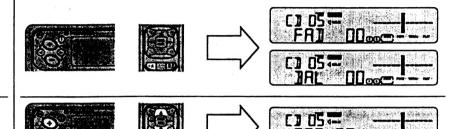
#### Parametric Bass/Treble Adjustment

This tuner/CD player is equipped with two tone adjustment modes, the Bass Adjustment and Treble Adjustment modes. Each allows you to select one of four frequency levels: 50, 80, 125 or 200 Hz in the Bass Adjustment mode, and 3.2, 5, 8 or 12.5 kHz in the Treble Adjustment mode.

Press the Shift button 2 times to select tone adjustment.

The selected frequency level is displayed. After adjustment use the Shift button to return to the normal display.

2. Press the Band button to select "Bass Adjustment mode" or "Treble Adjustment













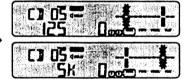












#### Audio Adjustment

Press the (◄) or (◄◄) button or the (►) or (►►) button to decrease or increase frequency.

Stop when the desired frequency is selected.

 Press the (+) or (▲) button or the (-) or (▼) button, respectively, to increase or decrease the intensity of the bass or treble, whichever is selected.

The display shows "+6"-"-6".

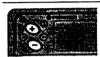
Repeat steps 2-4 above for the other Bass or Treble Adjustment mode.

















#### Tuner Operation

#### **Tuner Source and Band**

 Push the SO button or the TUNER button to select Tuner.

The program service name or frequency appears on the display.

("O" indicator lights when stereo station selected.)

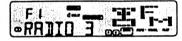
 Use the Band button to select the desired band.

(F1, F2, MW/LW)













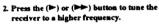


#### Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

 Press button 12 for 2 seconds or longer to switch alternately between the Manual and Seek tuning modes.

The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.



MANU ON (Manual tuning): The frequency changes step by step. MANU OFF (Seek Tuning): The tuner automatically seeks out and receives broadcasting stations.

 Press the (◄) or (◄◄) button to tune the receiver to a lower frequency.























#### Using the Built-in CD Player

#### Playing the Built-in CD player

 To play a CD that is already loaded, press the SO or CD/MCD button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.









#### Using Multi-CD Players

#### Multi-CD player operation

 Press the SO button or the CD/MCD button to select the multi-CD player source.

The message "MRP" ("Multi-CD player repeat"), the multi-CD player, disc and track numbers, and the playback time are displayed.

Notes:

- You cannot select the Multi-CD player source if no multi-CD player is installed or no magazine is loaded in an installed multi-CD player.
- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-80" (No disc) is displayed.









#### 4. DISASSEMBLY

#### Removing the Case(not shown)

- Remove the one screw.(Only DEX-P99/UC)
   Remove the two screws.(Except for DEX-P99/UC)
- 2. Insert and turn a flat screwdriver to remove the case.
- 3. Raise the case to remove.

#### ● Removing the Detach Grille Assy(not shown)

- 1. Press the detach button.
- 2. Remove the detach grille assy.

#### Removing the CD Mechanism Module(Fig.1)

- 1. Remove the four screws A.
- 2. Disconnect the two connectors C.
- 3. Remove the CD mechanism module.

#### Removing the Panel Assy(Fig.1)

- 1. Remove the two screws B.
- 2. Disconnect the two connectors D.
- Press the four stoppers at locations indicated by allows, and then pull out the panel assy.

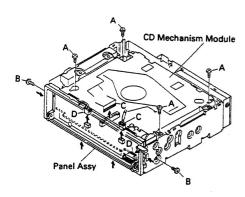


Fig.1

#### Removing the Tuner Amp Unit(Fig.2)

- Remove the two screws A, one screw B, one screw C, the three screws D, the holder and one screw E(only DEX-P99/UC).
- 2. Unbend the tabs at three locations indicated by arrows until straight.
- 3. Remove the tuner amp unit.

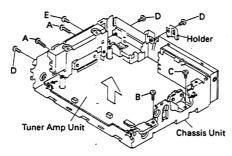


Fig.

#### ■ Removing the Cover Unit(Fig.3)

- 1. Remove the four screws.
- 2. Press the three stoppers at locations indicated by allows, and then pull out the cover unit.

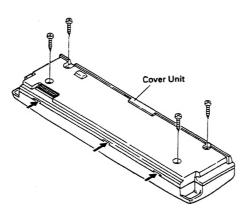


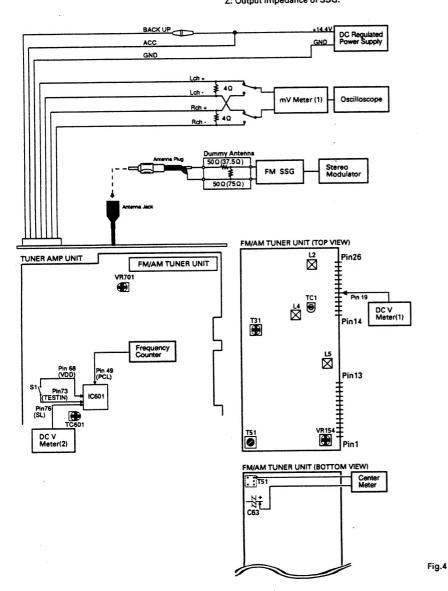
Fig.3

#### 5. ADJUSTMENT

Connection Diagram

#### NOTE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of SSG.



#### FM ADJUSTMENT(EW, ES MODEL)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM S	FM SSG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	*****	••••	108.0	L5	DC V Meter(1): 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1): Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1): Maximum
Image	1	129.3 M	6080	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

#### FM ADJUSTMENT(UC MODEL)

		FM SSG		Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	****	*****	107.9	L5	DC V Meter(1): 6V
F	1	98.1 M	60	98.1	T51	Center Meter: 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1): Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR 154	mV Meter(1): Separation 5dB (STEREO MODE)

#### **RDS SL ADJUSTMENT**

	FM S	SG	Displayed	Adjustment	Adjustment Method
No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
1	104.0 S2	35	104.0	VR701	DC V Meter(2): 1.75V±0.05V

#### **CLOCK ADJUSTMENT**

OLOOK AD	ADOUTHER!						
No.	Adjustment Point	Adjustment Method					
1		S1:0N					
2	TC601	Frequency Counter: 1.048576MHz±2Hz					

#### 6. TEST MODE

#### **6.1 TEST MODE**

1)Precautions

 This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

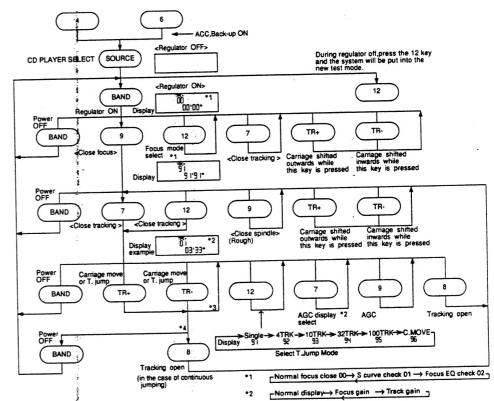
Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure Switch ACC, back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation
   Switch ACC, back-up OFF.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
- \*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
- \*The unit will not load a disc.
- When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key.
   Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched off.

#### Flow Chart



- \*3 100 TRK jump & carriage move continue only while the keys are pressed
- \*4 SINGLE/4/10/32 → continuous even after key release

#### 6.2 ERROR NUMBERS AND NEW TEST MODE

#### Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

#### (1) Basic Means of Display

·With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display

**ERROR-XX** 

Error	Classification	Description	Cause/Detail
Code			
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position —Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed  →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable  Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed  →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address  —Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected  Switching transistor defective and/or power abnormal

<sup>&</sup>quot;defects" means scratches, dirt etc an the surface of the disc.

#### New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point)is displayed.

#### (1) How to enter NEW TEST Mode

See the test mode flow chart Page 13.

#### (2) Relations of keys between TEST and NEW TEST Modes

Keys	Test M	fode		New Test Mode
	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated
BAND	Regulator ON	Regulator OFF		Time of occurrence / cause of error select
TR+		FWD-KICK	TRACK+/FF	_
TR-		REV-KICK	TRACK-/REV	_
7	_	TRACKING CLOSE	SCAN	-
8	_	TRACKING OPEN	MODE	<del></del>
9		FOCUS CLOSE	ITP	<del>-</del>
12	To New Test	FOCUS MODE	AUTO/MANU	
	Mode Select			

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

#### (3) Error Cause (Error Number) Code

Error Code	Classification	Mode	Description	Cause	Detail
40	ELECTRIC	PLAY	FOK=L 100ms	Put out of focus	Scratch,
41	ELECTRIC	PLAY	LOCK=L 100ms	Spindle unlock	Stain,
42	ELECTRIC	PLAY	Subcode	Failed to read subcode	Vibration,
			unacceptable 500ms		Servo defect,
43	ELECTRIC	PLAY	Sound skipped	Last address memory	etc
				operated	

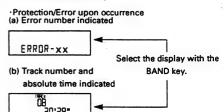
#### (4) Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC	Focus disrupted
	Subcode waiting	
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR, LOCK or subcode read	Focus disrupted, MIRR NG, Failure to lock,
	Carriage closed, SPINDLE=ADAPTIVE	Failed to read subcode

·SET UP in progress

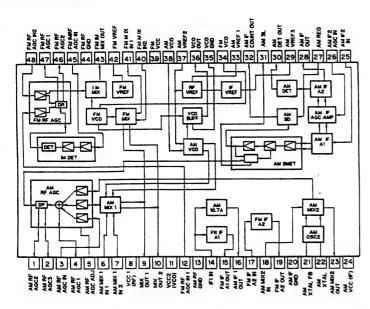
9 1.9 1.

·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

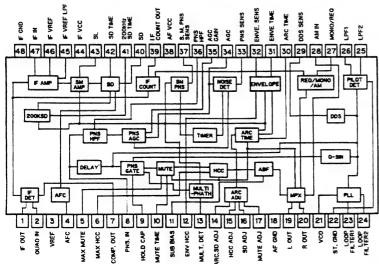


#### 7. IC INFORMATION

PA4023A



PA4024A



Pin Fun	ctions(PD462)	1A, PU46.	SUA)
Pin No.	Pin Name	1/0	Fo

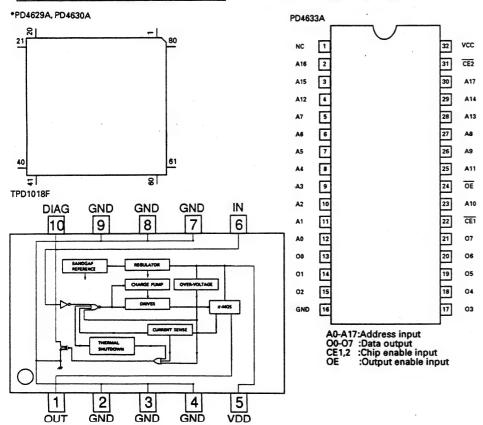
Pin No.	Pin Name	1/0	Format	Function and Operation
1-3	NC			Not used
4	AVSS			GND
5,6	NC			Not used
7	AVREF0			GND
8	KYDT	1		Key data input
9	DPDT	0	С	Display data output
10	SWVDD	Ö	Č	Grille micro computer power supply control output
11	RIDDI	ĭ		RDS/ID LOGIC data input
		0	С	RDS/ID LOGIC data output
12	RIDDO	0	Č	RDS/ID LOGIC clock output
13	RIDCK		C	P-BUS reset output
14	BRST	0		P-BUS enable output
15	BRXEN	0	C	
16	BSRQ		C	P-BUS request input
17	BSIO	1/0	С	P-BUS data input/output
18	BSCK	1/0	С	P-BUS clock input/output
19	RIDRST	0	С	RDS/ID LOGIC reset output
20	RIDSEL	0	С	RDS/ID LOGIC select output
21-24	NC			Not used
25,26	SOR0,1	0	С	Source select output
27	ST	1		Stereo input
28	SD			FMSD input
29	PDI			PLL data input
30	PCK	0	С	PLL clock output
31	PDO	0	Ċ	PLL data output
32	PCE	ō	Č	PLL chip enable output
33	VSS	-	<u> </u>	GND
34	NC NC			Not used
		<del> </del>		Not used
35	NC			Not used
36	NC			
37	ALLED	0	N	Detach alarm LED output
38	CDPW	0	N	Power supply select output
39	TMUTE	0	N	Tuner mute output
40	BUSMUTE	0	С	IP-BUS mute output
41	ASENBO	0	С	ACC output for IP-BUS
42	MUTRQ	1		Mute request from DSP
43	BMUTIN	1		Mute request from CDS micro computer
44	NC			Not used
45	PEE	0	С	Beep tone output
46	DOORSYS	0	C	Detach alarm system select output
47	SYSPW	0	C	System power output
48	MUTE	0	Č	Mute output
49	PCL	ő	č	Clock adjustment output
50	LCDPW	0	C	Back light control output
		0	C	Dimmer output
51	DIM	0	č	Illumination power supply control output
52	ILMPW		-	
53	CSENS	!!		Flap close sense input
54	ISENS	1		Illumination sense input
55	IPPW	1		IP-BUS driver power supply control input
56	TX	0	С	IP-BUS data output
57	RX	1		IP-BUS data input
58	ALON	0	С	Relay output for detach alarm hom
59	DOORSENS			Detach alarm door open/close sense input
60	RESET	0	С	Reset output
61	TELIN	1		Telephone mute input
62	BSENS	i		Back up sense input
63	ASENS	i		ACC sense input
64	DSENS	<del>l i</del>	<del> </del>	Grille detach sense input
04	DOENS		I	Cinic octavii sorias iriput

Pin No.	Pin Name	1/0	Format	Function and Operation
66,67	NC			Not used
68	VDD			Power supply
69	X2	0	С	Crystal oscillator connection pin
70	X1	1		Crystal oscillator connection pin
71	IC			GND
72	XT2			Not used
73	TESTIN	TI		Test program mode input
74	AVDD	1		A/D converter analog power supply
75	NC			Not used
76	SL	11		Signal level input
77-79	SEL0,2	1		Forwarding input
80	NC	T		Not used

Format	Meaning
С	C MOS
N	N channel open drain

IC's marked by are MOS type.

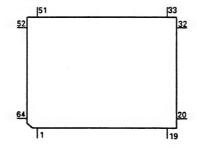
Be careful in handling them because they are very liable to be damaged by electrostatic induction.



-	Di-	E	ction	-/D	ne4	CAL
_	rın	run	CLIOI	1517	uo i	044

Pin No.	Pin Name	1/0	Format	Function and Operation
1	PCK	0	N	PLL Communication clock output
2	PDO	0	N	PLL Communication data output
3	PDI	1		PLL Communication data input
4	SL	1		Signal level input
5	NL	1		Noise level input
6	TRGL			Pull down connect terminal
7	SOUND	1		A sound signal for distinguish a same program
8	RMUTE	0	N	RDS mute output
9-11	NC			Not used
12	AVCC			5V power supply
13	AVR			5V power supply
14	AVSS			GND
15	IRSEL			Micro computer select input
16	RCK			RDS demodulation clock input
17	RDT			RDS demodulation data input
18	LDET			PLL lock detect input
19	RDSLK	1		RDSLK signal input
20	IRRST	1		Micro computer reset input
21,22	MOD0,1			GND
23	XIN	1		Crystal oscillating element connection pin
24	XOUT	0	С	Crystal oscillating element connection pin
25	VSS			GND
26	DRST	0	С	Decoder reset output
27	L/S	0	С	Output for select sensitivity of noise level
28	CURRQ	0	С	PLL-TV-Fix output
29	IRRDY	0	С	Communication ready output
30-49	NC			Not used
50	VSS			GND
51	TEST	1		Test program input
52	IRCK	1		Communication clock input
53	IRDO	0	С	Communication data output
54	IRDI	1		Communication data input
55	PCE	0	С	PLL Communication enable output
56	GD	0	С	Tuner unit gate drive control output
57	VCC			5V power supply
58	SD			SD signal input
59	MDSENS			Modulation detect input
60-64	NC			Not used

#### \*PD6164A

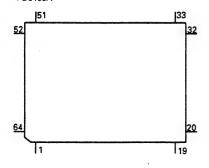


Format	Meaning
С	C MOS
N	N channel open drain

0	Pin	Function	s(Pl	<b>J61</b>	65A)

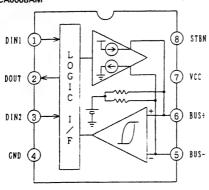
Fin Functi	OUSILAGUE	<u> </u>		
Pin No.	Pin Name	10	Format	Function and Operation
18	NC			Not used
9-11	ADD13-15	0	N	ROM Adress 13-15
12	AVCC			5V power supply
13	AVR			5V power supply
14	AVSS			GND
15	IRSEL			Select input
16-19	NC			Not used
20	TRRST			Reset input
21,22	MOD0,1			GND
23	XIN	1		Crystal oscillating element connection pin
24	XOUT	0		Crystal oscillating element connection pin
25	VSS			GND
26-28	NC			Not used
29	IRRDY	0	С	Communication ready output
30	ŌĒ	0	C	ROM output control
31	ROMEN	0	С	ROM enable
32,33	ADD17,16	0	C	ROM adress 17,16
34-41	ADD7-0	0	С	ROM adress 7-0
42-49	DT7-0	1		ROM data input 7-0
50	VSS			GND
51	TEST	1		Test program input
52	IRSCK			Communication clock input
53	IRDO	0	С	Communication data output
54	IRDI			Communication data input
55,56	NC			Not used
57	VCC			5V power supply
58,59	NC			Not used
60-64	ADD8-12	0	N	ROM adress 8-12

#### \*PD6165A



Format	Meaning
С	C MOS
. N	N channel open drain

#### CA0008AM

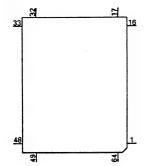


#### ● Pin Functions(PD4623A)

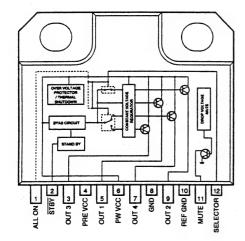
	ONS(PD4623/		1 -	
Pin No.	Pin Name	1/0	Format	Function and Operation
1	NC	<u> </u>	<del></del>	Not used
2	XRST	0	С	CD LSI reset output
3,4	NC			Not used
5	CBNK0	0	С	DSP bank for compressor set up output 0
6	NC			Not used
7	HOME			Carriage home position detector input
8	CLAMP	1		Disc clamp sense input
9	VSS			GND
10	NC			Not used
11	CDEJET	0	С	Loading motor eject control output
12	LOAD	0	С	Loading motor load control output
13	CONT	0	С	Servo driver power supply control output
14	NC			Not used
15	CDMUTE	0	С	CD mute control output
16	DEEM	0	С	Emphasis control output
17	ADENA	0	С	A/D reference voltage control output
18-23	NC	1		Not used
24	VSS			GND
25	NC	<del>                                     </del>		Not used -
26	BMUTE	0	С	Bus mute output
27-30	NC	+ -	-	Not used
31	BRXEN	1/0	С	P-BUS reception enable input/output
32	BSRQ	0	c	P-BUS serial pole request output
	VDCONT	10	l c	VD power supply control output
33				CD +5V power supply control output
34	CD5VON	0	C	
35	RESET	1	<del> </del>	Reset input
36	TXARI	<del> </del>	ļ	+5V
37	CSENS	1!	<del> </del>	Flap close sense input
38	BRST	1		P-BUS reset input
39	CMPARI	1		VSS
40	VDD			+5V
41	X2	0	ļ	Crystal oscillator connection pin
42	X1	1		Crystal oscillator connection pin
43	IC			GND
44	NC			Not used
45	TESTIN	1		Test program start input
46	AVSS			A/D GND
47	TEMP	1		Temperature detector input
48	VDSENS	1		VD power supply detector input
49	EJTD			Disc eject position sense input
50	DINC	1		Disc insert sense input
51	NC			Not used
52	FOK	T		Focus OK signal input
53	MIRR	Ti		Mirror detector input
54	LOCK	1	1	Spindle lock detector input
55	AVDD	1	1	A/D analog power supply
56	AVREF	1	1	A/D converter reference voltage input
57	XSI	<del>li -</del>	<b>†</b>	CD LSI serial data input
58	XSO	0	С	CD LSI serial data output
59	XSCK	0	Č	CD LSI serial clock output
60	XSTB	10	C	CD LSI serial clock output  CD LSI strobe output
			C	
61	XA0	0	<del>                                     </del>	Output for control signal distinguishing CD LSI data
62	VSS	1	<del> </del>	GND
63	BDATA	1/0	C	P-BUS serial data input/output
64	BSCK	1/0	C	P-BUS serial clock input/output

П	Format	Meaning	
	С	C MOS	

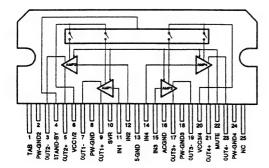




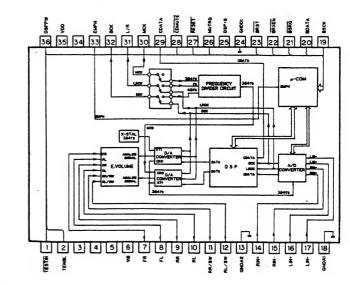
PA2024A



PAL003A

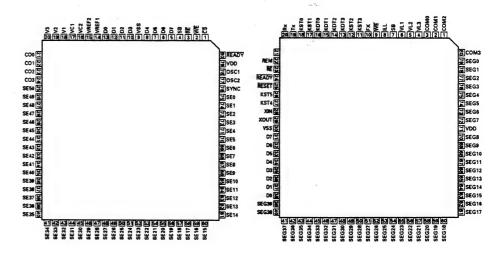


#### CWV1062



HD61602RH

PD5342A

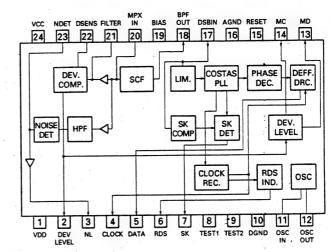


Pin No.	Pin Name	1/0	Function and Operation
1	EFM-IN	1	EFM comparator input
2	AGC-OUT	0	AGC amplifier output
3	C. AGC		Connects AGC peak detection condenser
4	RF-IN	1	RF signal DC component cut input
5	RF-OUT	0	RF amplifier output
6	RF-	11	RF amplifier inverted input
7	C1, 3T		Connects RF3T component detection condenser
8	C2, 3T		Connects RF3T component detection condenser
9	Vcc		Power supply
10	Α	1	A signal input
11	C	11	C signal input
12	В	11	B signal input
13	D	T	D signal input
14	F		F signal input
15	E		E signal input
16	PD	Ti	APC amplifier input
17	LD	0	APC amplifier output
18	LDON	Ti	Laser diode ON/OFF input
19	VREF-OUT	0	Reference voltage output
20	VREF-IN	TI	Reference voltage input
21	DET-OUT	0	Vibration detection circuit output
22	DET-IN	11	Vibration detection circuit input
23	TE-OUT2	0	Tracking error amplifier output (fourfold gain)
24	TE-OUT1	0	Tracking error amplifier output (singlefold gain)
25	TE-	1	Tracking error amplifier inverted input
26	GND		GND
27	FE-	11	Focus error amplifier inverted input
28	FE-OUT	0	Focus error amplifier output
29	C.FE	Ti	Focus error signal DC component cut input
30	3T-OUT	0	RF3T component output
31	MIRR	Ō	MIRR signal output
32	RFOK	Ö	RFOK signal output
33	DEFECT	0	DEFECT signal output
34	C. DEF		Connects DEFECT signal detection condenser
35	EFM-OUT	0	EFM comparator output
36	ASY	Ť	EFM comparator level input
37	TE-BAL	Ti T	Tracking balance control
38	FE-BAL	1	Focus balance control

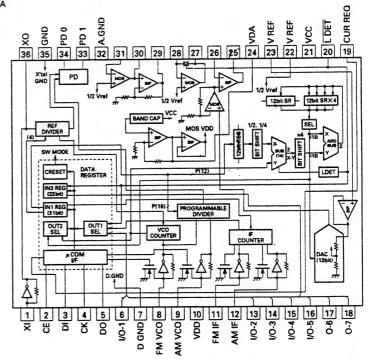
UPC2572GS

38 57 56 55 54 53 52 51 50 29 28 27 26 25 24 23 22 21 20

\*PMW001A



\*PM2004A

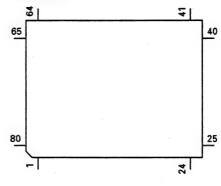


Pin Functions (UPD63702GF)

Pin No.	Pin Name	1/0	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST	1	System reset input pin
3	AO	I	Microcomputer interface
			AO="L": STB active and set to address register
	·		AO="H": STB active and set to parameter
4	STB	1	Signal to latch serial data within the LSI
5	SCK	Ti T	Clock input pin to input and output serial data
6	SO	0	Outputs serial data and status signal
7	SI	Tř –	Serial data input pin
. 8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
		1	Crystal oscillator connection pin
10	XTAL		
11	XTAL	0	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	0	Right channel analog audio data output pin
15	R-	0	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	0	Left channel analog audio data output pin
19	L+	0	Left channel analog audio data output pin
20	DA.VDD	1	Supplies current of positive voltage to the D/A converter
21	D.VDD	1	Supplies current of positive voltage to logic circuit
22	FLAG	0	Flag output pin to indicate that audio data currently being output consists of
	1.5.0		noncorrectable data
23	WDCK	0	Pin to output double the frequency of LRCK
24	C16M	10	Pin to output the clock
25	EMPH	18	Output pin for the pre-emphasis data in the sub-Q code
	DIN		
26		1	Input pin for serial audio data
27	DOUT	0	Output pin for the serial audio data
28	SCKO	0	Output pin for the clock for the serial audio data
29	LRCK	0	Signals to distinguish the right and left channels of the audio data output
			from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	0	Output pin for the digital audio interface data
31	CTLV		Oscillation control pin for high-frequency clock generation VCO used for the
			digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	0	Output point for phase comparison
33	D.GND	T	GND for the logic circuit
34	vco	1	Input pin for the inverter
35	VCO	0	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	0	Pin for monitoring the bit clock
38	LOCK	Ö	Indicates "H" when the synchronized pattern detection signal matches the
30	LOCK	0	frame counter output at the EFM recovery modulation, and "L" when they
		1	don't match
20	WFCK	0	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame
39	VVFCK	10	
		+	(approx. 7.35kHz)
40	RFCK	0	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame
			(approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	1	Test pins
44,45	TM2, TM4	11	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	1	Test pins
50,51	C1D1, C1D2	0	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	0	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	0	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	ō	The signal indicates the beginning of the subcode block. The SFSY signal is

Pin No.	Pin Name	1/0	Function and Operation
58	SBSO	0	Output pin for the subcode data
59	SBCK	1	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	0	Output pin for the spindle drive
62	SD	0	Output pin for the sled drive
63	TD	0	Output pin for the tracking drive
64	FD	0	Output pin for the focus drive
65	FBAL	0	Output pin for the focus balance control
66	TBAL	0	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	1	Switches coefficient banks for the tracking filter
69	EFM	1	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	1	Input pin for the RFOK signal
72	MIRR	1	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74,75	VR2,1	1	The signal input through these pins is digitized to 8-bit by the A/D converter,
			which by operation of the assigned register, can be read into the microcomputer
76	FE	1	Inputs a focus-error signal from the RF amplifier
77	TE	1	Inputs a tracking-error signal from the RF amplifier
78	TEC	1	Input pin for the tracking comparator
79	REFOUT	0	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

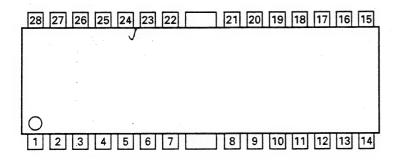




Pin	Functio	ns (XI	A6997	(FP)

Pin No.	Pin Name	1/0	Function and Operation
1	OUT1-A	0	CH1 driver output
2	OUT1-B	0	CH1 driver output
3	IN1	1	CH1 input
4	IN1'	1	CH1 gain adjustment input
5	REG-B		PowTr base connection pin for regulator
6	REG OUT	0	Regulator output PowTr collector connection pin
7	REG GND		Regulator GND/Common circuit GND
8	BIAS	1	BIAS input
9	MUTE		Mute control pin
10	REG SW		Regulator switch pin
11	TEMP MON	l	Humidity monitor pin
12	IN2	11	CH2 input
13	OUT2-B	0	CH2 driver output
14	OUT2-A	0	CH2 driver output
15	GND		GND
16	OUT3-A	0	CH3 driver output
17	OUT3-B	0	CH3 driver output
18	IN3"		CH3 gain adjustment pin
19	IN3'		CH3 gain adjustment pin
20	IN3	1	CH3 input
21,22	VCC		VCC
23	IN4	l l	CH4 input
24	IN4'	I	CH4 gain adjustment pin
25	IN4"		CH4 gain adjustment pin
26	OUT4-B	0 ′	CH4 driver output
27	OUT4-A	0	CH4 driver output
28	GND		GND

#### XLA6997FP



#### 8. ELECTRICAL PARTS LIST

#### NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

#### Chip Resistor

RS1/04000J,RS1/00S000J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Example & No. Pa	rt Name=====	Part No.	Example Circuit Symbol & No. Part Name	Part No.
			CAPACITORS	
Key Board Unit			0 1001 1000	CSZSR100M6R
onsists of 1			C 4901 4902	CKSQYB104K1
Key Board P.C.Beard			C 4914 4921	CKSQYB473K1
Switch P.C.Board			C 4915 4916 4917 4919 4920	CKSQYB273K2
2	•		C 4922	
nit Number : CWM4471			Unit Number : CWM4531	
Init Name : Key Board Un	it		Unit Name : Inverter Unit	
MISCELLANEOUS.			MISCELLANEOUS	
901		PD5342A		2SD1864
		HD61602RH	Q 640	CTT1038
902	_	RS-30	Transformer	C111036
905	•	2SC2712	,	
903		MA153	RESISTORS	*
4901 4902		M-130		
		CL170FGCD	R 609	RS 1/10S512J
	D CCO		R 621	RS1/10S241J
	p LED	CL170FGCD	n va:	100
4908 4909 4910 4911 Chi	p LED	CL170FGCD	CAPACITORS	
4912 4913 Chi	p LED	CL170FGCD	CAPACITORS	
4914 4915 4916 4917 Chi	ip LED	CL170FGCD	0.000	CKSQYB473K
	•		C 629	CEA100M16LI
4918 4919 4920 4921 Ch	ip LED	CL170FGCD	C 630	CD-1100
	ip LED	CL170FGCD		
	ip LED	CL170FGCD	Unit Number : CWX1923	
	ip cco	MA151K	Unit Name : Tuner Amp Unit	
0 4926	- 150	CL170FGCD		
0 4930 4931 4932 4933 Ch	ip LED	GE 17 GI GOD	MISCELLANEOUS	
		CL170FGCD		
J 4004 4000	ip LED	CL170FGCD	IC 451	TA2050S
	ip LED	LCTA4R7K4538	IC 452	CA0008AM
	luctor		IC 501	PM2004A
_ 902 903 Ind	luctor	LCTB2R2K2125	IC 551	PAL003A
X 901 (Ceramic R	esonator 4.9152MHz	CSS1084	IC 601	PD4630A
/.			IC 601	
5 901 🕹 🗦 Sv	vitch	CSG1043	10 000 000	S-80734AND
5 902 903 904 905 Sv	vitch	CSG1041	IC 602 853	PD4623A
5 906 907 912 913 Sv	vitch	CSG1043	IC 651	PD6164A
	vitch	CSG1041	IC 701	SC14SU69F
	vitch	CSG1041	IC 702	PMW001A
5 514 515 516 511			IC 703	LINITAGO
S 918 919 920 921 Sv	vitch	CSG1043		VO ADIDITE
	witch	CSG1043	IC 851	XRA3131FS
0 022 020 021	witch(Close)	CSN1027	IC 852 DSP Module	CWV1062
		CEL1424	IC 921	TPD1018F
EL		CAW1332	IC 971	PA2024A
LCD901 _ LC	. D	CATT 1332	IC 991	NJM78M05A
RESISTORS			Q 452 672 679 941	2SA1162
		DC+ DC2000 I	Q 453 454 601	DTC124EK
R 4901 4902	•	RS1/2S222J	Q 455	DTA114TK
R 4904		RS1/16S121J		IMH3A
R 4905		RS1/8S151J	Q 456 881 882 883	2SC2712
R 4906 4907 4908 4909 4910	4911 4912 4913 4914 491	5 RS1/16S470J	Q 502	2502712
R 4920 4923 4955		RS1/16S473J		DTC124EK
.,			Q 503	IMH1A
R 4921 4922 4924 4925 4926	4929 4930 4931	RS1/16S472J	Q 551	
		RS1/16S102J	Q 651	DTA124EK
R 4933 4957		RA3C102J	Q 671 678	2SC3295
R 4934		RS1/16S102J	Q 673	IMX1
R 4935 4936		RA4C102J		
R 4938 4942		M46 102J	Q 675 911	2SD1760F5
*				2SB1238
R 4939		RS1/16S103J		2SC2712
R 4946 4947 4948 4949 4950	4951 4952 4959 4960	RS1/4S151J	Q 677	DTC143TK
R 4958		RS1/16S2R2J	Q 701	2SD1757K
		RS1/2S241J	Q 834 835	

=====Circuit Symbol & No. Part Name	Part No.	=====Circuit Symbol & No. Part Name=====	Part No.	,	Circuit Symbol & No. Part Name	Part No.	====Circuit Symbol & No	. Part Name====	Part No.
Q 887 981	IMD2A	R 519	RS1/16S472J		R 876 877	RS1/16S184J	C 722		CKSQYB103K25
Q 951 952 953	2SC2712	R 520	RS1/16S561J		R 881 882 887 888 891 892	RS1/16S821J	C 723 724		CCSQCH330J50
Q 982	2SD2396	R 521	RS1/16S102J		R 883 884 885 886 889 890	RS1/16S223J	C 725		CKSQYB471K50
Q 992	DTC124EK	R 522	RS1/16S103J		R 911	RS1/10S101J	C 726		CCSQCH101J50
D 451 881 882 883	MA151WA	R 523	RS1/16S152J		R 912	RS1/10S682J	C 729		CKSYB102K50
D 502	MA151WK	R 524	RS1/16S222J		R 921	RS1/16S103J	C 730		CSZA010K25
D 601 D 602	MA151K RB705D	R 525 526 R 527	RS1/16S392J RS1/16S0R0J		R 941	RS1/10S183J RS1/10S473J	C 837 838 C 839 840		CEA010M50LL CKSQYB223K25
D 671	MA 153	R 528	RS1/16S473J	•	R 952 954 957 R 953 955 956	RS1/10S223J	C 841		CKSQYB103K25
D 672 991	MA151WK	R 529	RS1/16S102J		R 964	RS1/16S473J	C 851 852 853 854		CCSQCH150J50
D 673	MA3047M	R 530	RS1/16S681J		R 981	RD1/4PS221JL	C 861 866 867 872 87	3 881 882 885 886 88	9 CEA100M16LL
D 674	MA3082L	R 532	RS1/16S0R0J		R 982	RS1/10S221J	C 863	).22F/5.5V	CCL1037
D 675	MA3062M	R 533	RS1/16S562J		R 984	RS1/16S122J	C 864		CKSYB105K16
D 676 677 678 D 701	MA153 MA3047M	R 534 R 535	RS1/16S272J RS1/16S103J		R 991	RS1/10S102J	C 868 869 912 993 C 870		CKSQYB103K25 CKSQYB102K50
					R 992	RD1/4PS102JL	C 8/0		
D 702 D 831	MA151K MA151K	R 536 R 553 872 873 874 875	RS1/16S332J RS1/16S331J		CAPACITORS		C 878		CCSQCH101J50 CSZSR100M10
D 852 953	MA151K	R 555	RS1/16S101J		C 451 452 702 711 983	CKSQYB104K16	C 880 C 883 884 887 888 89	1 902	CCSQCH221J50
D 901 902 911 921 922	ERA15-02VH	R 604	RA3C221J		C 453 601 602 603 605 704 709	CKSQYB102K50	C 890 992	1 092	CEA100M16LL
D 912	HZS6LB1	R 606 607 611 613	RS1/16S682J		C 454 457 458 459 707 716 855 858 859 8		C 893	•	CCSQCH221J50
			1	/	C 455 456 460 461 462 463 556 560 835 8	B36 CEA010M50LL			
D 941 D 951	MA151WK MA3082L	R 608 622 624 861 862 893 944 973 R 610 612	RS1/16S102J RS1/16S221J	1	C 464 465	CKSQYB102K50	C 894 895		CKSYB105K16 CEA470M10LL
D 952	MA3075H	R 617	RA4C681J		C 501 504 508 513 515 517 521 671 701	110 CYCOVP103Y3E	C 913 972 974 C 921		CKSQYB473K50
D 971	MA151WK	R 623	RS1/16S124J		C 502	CKSQYB223K25	C 951		CKSQYB103K50
D 982	HZS9LB1	R 627 631 632 652 654 659 664 666 677	707 RS1/16S473J		C 503	CEAR47M50LL	C 973		CEA101M10LL
L 501 Ferri-Inducto	CTF-157	0.000			C 506 518 530	CEA220M6R3LL			
L 501 Ferri-Inducto L 502 503 601 602 Ferri-Inducto		R 628 R 635 637 639 669	RA3C473J RS1/16S473J		C 507	CKSQYB104K16		330µF/10V	CCH1181
L 504 Resistor	RS1/16SOROJ	R 638	RS1/16S393J		C 509 510	CKSQYB223K25	C 976 C 981		CKSQYB102K50 CEA101M10LS
L 651 671 701 851 Ferri-Inducto	LAU2R2K	R 662	RN1/10SE203D		C 511 512	CCSQCH150J50	C 982		CKSYB105K16
L 703 Inductor	LCTB2R2K3216	R 667 668 705 711 712 717	RS1/16S681J		C 514	CEA330M10LL	C 991	470µF/16V	CCH1183
L 852 853 Inductor	LCTB1R0K3216	R 672 673	00444000041		C 516 524 529 611 652 674 675	CCSQCH101J50			
L 941 Ferri-Inductor		R 674	RS1/16S224J RS1/10S473J		C 519 523 526 862	CKSQYB103K25	Unit Number : CWE1416(I Unit Name : FM/AM Tui		
TC 601 Trimmer	CCG-070	R 675	RS1/16S204J		C 520	CKSQYB103K25	Offic Harrie . PRIVARITO	ner Onit	
TH 651 Thermistor	CCX1031	R 679	RD1/4PS681JL	42	C 522 4.7µF/16V	CCH1165	MISCELLANEOUS		
501 Crystal Resor	nator 7.200MHz CSS1379	R 680	RS2P100JL		C 525 4.7µF/16V	CCH1165			
X 601 Resonator 6.	291456MHz CSS1303	R 682	RS1/2S681J		C 527 C 528	CKLSR473K16 CEA220M10LL	IC 1 IC 2		PA4023A PA4024A
X 651 Resonator 8.		R 685 820 972	RS1/16S104J		C 528	CEA220M TOLL	Q 1 31 165 202		2SC2412KLN
	nator 4.332MHz CSS1056	R 688	RS1/8S222J		C 532 534	CCSQCH101J50	Q 2 154 203		DTC124EU
S 601 Switch(Reset		R 689 694	RS1/10S222J		C 533	CKSQYB152K50	Q 3		3SK263
IL 671 Lamp 14V/40	mA CEL1150	R 690 692	RS1/8S472J		C 535	CKSQYB223K25			******
VR 701 Semi-fixed 2.	2kΩ(B) CCP1123	R 691 693	RS1/10S472J		C 536 537 C 538	CKSQYB103K25 CKSQYB103K25	Q 201 D 4		2SK932 1SV251
FU 671 IC Protecter 0		R 701 714	RA3C681J			CKOQ 10 100AZ	D 5 7 8		KV1410
FM/AM Tune		R 702	RS1/16S0R0J		C 541 543	CCSQCH101J50	D 6 201 202		MA157
EF 901 EMI Filter BZ 601 Buzzer	CCG1006 CPV1011	R 703 R 704 708	RS1/16S101J RS1/16S681J		C 542	CCSQCH101J50	D 231		SVC253
BZ 601 Buzzer	CPVIOTI	H 704.708	K51/165681J		C 544 545 C 546 547	CCSQCH101J50 CKSQYB102K50	1 2 4		CTC1108
RESISTORS		R 709	RS1/16S562J		C 548	CKSQYB102K25	L 2 4	nductor	LCTB2R2K2125
11.1.		R 710	RS1/16S222J					Coil	CTC1107
R 451 452	RS1/16S101J	R 713 735 894 993	RS1/16S473J		C 549	CKSQYB332K50	L 6 I	nductor	LCTBR15K1608
R 453 R 454 468 505 507 651 653 663	RS1/16S620J	R 724 R 725	RS1/16S102J RA3C102J		C 551 552 553 554	CKSYB224K16	L 51 I	Ferri-Inductor	LAU150K
R 455 456 464 465 469 470 487		R 725	RASC 1023		C 555 C 557	CEA330M16LL CEA220M16LL	L 201	Ferri-Inductor	LAU4R7K
	615 616 626 RS1/16S473J	R 728 729	RS1/10S102J		C 558 911 1000µF/16V	CCH1149		erri-Inductor	LAU330K
		R 730	RS1/16S0R0J					nductor	CTF1287
	842 870 871 RS1/16S223J 614 678 683 RS1/16S472J	R 732	RS1/10S151J		C 559 3300µF/16V	CCH1150		nductor	LAU121K
R 460 461 503 508 511 512 513	RS1/16S4/2J	R 734 R 738	RS1/16S102J RS1/16S223J		C 561 971 C 571 572 573 574 575 576 714	CKSQYB104K50 CKSQYB222K50	L 231	nductor	LAU3R3J
R 471 472 731	RS1/16S333J		113 17 1032233		C 604 856	CEA2R2M50LL	T 31	Coil	CTE 1116
R 473 551 552 554 661 671 676	684 RS1/16S103J	R 821 864	RS1/16S104J		C 606 651	CEA4R7M35LL		Coil	CTC1136
R 484 571 572 573 574 575 576	CCE CCC CC0 DC1/10CC01 '	R 837 838	. RS1/16S332J				TC 1	Trimmer	CCL1042
R 502	RS1/16S472J	R 839 840 R 843 844	RS1/16S222J RS1/16S224J		C 607	CKSQYB103K25		Ceramic Filter	CTF1292 CTF1348
R 506 733	RS1/16S222J	R 845	RS1/16S824J		C 608 610 C 609	CCSQCH330J50 CCSQCH120J50	CF 232	Ceramic Filter	CIF1348
R 509 706	RS1/16S0ROJ				C 672 470µF/16V	CCH1183	X 151	Ceramic Resonator 920.5kH	z CSS1365
R 510	RS 1/16S473J	R 851 852	RS1/16S303J		C 705 706	CCSQCH270J50	X 231	Crystal Resonator 10.26MH	z CSS1111
. R 514	RS1/16S105J	R 853 854 R 855 856	RS1/16S363J RS1/16S513J		0 700 745	0400)@46046		Semi-fixed 68kΩ(B)	CCP1211
R 515	RS1/16S102J	R 857 858	RS1/16S224J	77%	C 708 715 C 710	CKSQYB103K25 CKSQYB472K50	AR 1 Capacitor	with Discharge Gap	DSP-201M
R 516	RS1/16S682J	R 866 867 868 869 942 943 971 974 983	RS1/16S472J		C 710	CSZS010M16			
R 517	RS1/16S472J			*	C 713	CKSYB104K16			
R 518	RS1/16S682J		s .		C 720	CEA4R7M16NPLL			

Circuit Symbol & No. Part Name	Part No.	====Circuit Symbol & No. Part Name=====	Part No.	1	====Circuit Symbol &	No. Part Name	Part No.	====Circuit Symbol & No. Part Name===== Part No.
RESISTORS		C 16	CCSRCH080D50	× .	L 201	Ferri-Inductor	LAU4R7K	CAPACITORS
		C 21	CEA100M16LL		L 202	Ferri-Inductor	LAU330K	
1	RS 1/16S0R0J	C 22	CCSRTH090D50		L 203	Inductor	CTF1287	C 1 CCSQCI
4	RS1/16S154J	C 23	CCSRTH120J50		L 208	Inductor	LAU121K	C 2 CCSRCH
5	RS1/16S391J	C 24	CCSRCH471J50		L 231	Inductor	LAU3R3J	C 4 CCSRCH
6 10 202	RS1/16S223J				2 25.			C 6 CCSRCH
7 243 247	RS1/16S123J	C 32	CKSQYB472K50		T 31	Coil	CTE1116	C 8 18 25 31 52 59 62 105 107 213 CKSRYE
		C : 33	CCSRCH050C50		T 51	Coil	CTC1136	
8 17	RS 1/16S332J	C 36	CCSRRH201J50		CF 51 52 53	Ceramic Filter	CTF1290	C 9 34 56 152 160 241 CKSQYE
9	RS1/16S473J	C 51	CKSRYB223K25		CF 232	Ceramic Filter	CTF1348	C 10 CCSRCI
11	RS1/16S124J	C 54	CCSRCH470J50		X 151	Ceramic Resonator 920.5k	Hz CSS1365	C 11 CEA010
13	RS 1/16S563J							C 12 13 17 19 20 CKSRYE
15	RS 1/16S271J	C 55	CKSQYB223K25		X 231	Crystal Resonator 10.26M	tz CSS1111	C 14 CCSRCH
		C 57	CKSRYB472K50		VR 154	Semi-fixed 68kΩ(B)	CCP1211	C 15 CCSRCH
16	RS1/16S104J	C 58 234	CEA330M10LL					2 13
18	RS1/16S332J	C 61	CCSRCH270J50		RESISTORS			
31	RS1/16S470J	C 63	CEAR15M50LL					
32 215	RS 1/16S822J				R 1 2		RS1/16S225J	C 22 CCSRTI-
33	RS 1/16S822J	C 101	CEA100M10NPLL		R 4		RS1/16S154J	C 23 CCSRTF
		C 102	CKSRYB182K50		R 5		RS1/16S391J	***************************************
34 35	RS 1/16S331J	C 103	CKSRYB682K25		R 6 10 202		RS1/16S223J	C 24 CCSRC
51	RS 1/16S271J	C 104	CEA2R2M50LL		R 7 247		RS1/16S123J	C 26 CCSRCH
52	RS 1/16S560J	C 106	CCSRCH151J50			-		C 32 CKSQYI
55	RS1/16S102J	·		- (	R 8 17		RS1/16S332J	C 33 CCSRC
56	RS1/16S823J	C 151	CKSRYB472K50		R 9	* *	RS1/16S473J	C 36 CCSRRI
		C 153 157	CEA3R3M50LL	_	R 11		RS1/16S124J	•
61	RS1/16S392J	C 154	CKSQYB104K16		R 13		RS1/16S563J	C 51 CKSRYT
62 152	RS 1/16S393J	C 158	CKSYB474K16				RS1/16S271J	C 54 CCSRCI
101	RS1/16S272J	C 159	CEA220M6R3LL		R 15		110 11 10021 10	C EE CKSQY
02	RS1/16S682J				R 16		RS1/16S104J	C 57 CKSRYI
3	RS 1/16S333J	C 161 209	CKSQYB104K16		R 16 R 18		RS1/16S332J	C 58 234 CEA330
		C 162	CEA3R3M50LL				RS1/16S470J	
04	RS1/16S334J	C 163	CKSRYB102K50		R 31		RS1/16S822J	C 60 CKSRYI
05	RS 1/16S683J	C 170 202	CCSRCH100D50		R 32 215		RS1/16S822J	Č 61 CKSRYI
07	RS1/16S222J	C 201 250	CCSRCH471J50		R 33		RS1/165822J	C 63 CEAR22
51	RS1/16S222J	0 201 250	000101771000					C 101 CEA100
54 239	RS 1/16S 104J	C 203 235	CKSRYB332K50		R 34 35		RS1/16S331J	
	110 4 100 1040	C 204 205 236 244	CKSQYB473K16		R 51		RS1/16S271J	C 102 CKSRYI
155	RS1/16S273J	C 206 233	CKSQYB104K16		R 52		RS1/16S560J	C 103 CKSRYI
156	RS1/16S243J	C 207	CCSRCH560J50	1	R 55		RS1/16S102J	
157	RS1/16S203J	C 211	CCSRCH101J50		R 56		RS1/16S823J	
160	RS 1/16S222J	C 211	CUSACH IV 1350					
161	RS 1/16S563J	C 212	CEA470M6R3LL		R 61		RS1/16S392J	C 101
101	NO 1/1600633	C 212	CCSRCH101J50		R 62		RS1/16S273J	C 153 157 CEA3R3
162	RS1/16S105J	C 217	CEA1R5M50LL		R 101		RS1/16S272J	C 154 CKSQY
163	RS1/16S222J		CCSRCH471J50		R 102		RS1/16S682J	
203	RS1/16S225J	C 219 C 220 230	CKSRYB103K25		R 103		RS1/16S333J	C 136
204		C 220 230	CKSh1B103K25					C 133
206	RS1/16S103J RS1/16S220J	C 231	CCSRCH330J50		R 104		RS1/16S334J	L 101 203
206	RS 1/165220J				R 105		RS1/16S683J	C 162 CEA3R
207	RS1/16S101J	C 232 C 237	CCSRCH150J50 CCSRCH180J50		R 107		RS1/16S222J	C 163 CKSRY
				/	R 151		RS1/16S222J	
208 217	RS1/16S102J	C 239	CKSRYB472K50	f	R 152		RS1/16S393J	
209	RS1/16S471J	C 240 242	CEAR47M50LL					C 201 250 CCSRC
214	RS1/16S822J			_	R 239		RS1/16S104J	C 203 235 CKSRY
231	RS1/16S272J	C 243	CEAR33M50LL		R 155		RS1/16S273J	C 204 205 236 244 CKSQY
		C 245	CKSRYB123K25		R 156		RS1/16S243J	
32 37	RS1/16S473J	C 246	CKSQYB473K16		R 157		RS1/16S203J	C 206 233 CKSQY
	RS1/16S103J		FV Dec #100		R 160		RS1/16S222J	C 207 CCSRC
38 40	RS1/16S104J	Unit Number: CWE1417(DEH-P825/UC,P823/ES,DI	EX- <del>1'99</del> /UC)					C 211 CCSRC
	RS 1/16S332J	Unit Name : FM/AM Tuner Unit			R 161		RS1/16S563J	C 212 CEA470
1	RS1/16S202J				R 162		RS1/16S105J	C 216 CCSRC
		MISCELLANEOUS			R 163		RS1/16S223J	
4	RS1/16S103J				R 203		RS1/16S225J	C 217 CEA1R
		IC 1 IC 2	PA4023A		R 204		RS1/16S103J	C 219 CCSRC
CITORS		IC 2	PA4024A				-	C 220 230 CKSRY
		Q 1 31 202	2SC2412KLN		R 206		RS1/16S220J	C 231 CCSRC
1	CCSQCH060D50	Q 2 203	DTC124EU		R 207		RS1/16S101J	C 232 CCSRC
2	CCSRCH020C50	Q 3	3SK263		R 208 217		RS1/16S102J	
4	CCSRCH820J50				R 209		RS1/16S471J	C 237 CCSRC
6	CCSRCH820J50	Q. 201	2SK932		R 214		RS1/16S822J	C 239 CKSRY
8 18 25 31 52 59 62 105 107	213 CKSRYB103K25	D 1 2	RD39JS		n 214		NO 1/ 1000220	C 240 242 CEAR4
		D 4	1SV251		5 404		RS 1/16S272J	C 243 CEAR3
9 34 56 152 160 241	CKSQYB104K16	D 5 7 8	KV1410		R 231			C 240
10	CCSRCH0R5C50	D 6 201 202	MA157		R 232		RS1/16S473J	C 245 CKSRY
11	CEA010M50LL	201 202			R 237		RS1/16S103J	C 246 CKSQY
12 13 17 19 20	CKSRYB222K50	D 231	SVC253	_	R 238		RS1/16S104J	C 246 CKSQY
14	CCSRCH220J50	L 2 4	CTC1108		R 239		RS1/16S104J	
17	CC3NCH22W3U	L 2 4 L 3 Inductor		_				
		L 3 Inductor L 5 Coil	LCTB2R2K2125	_	R 240		RS1/16S332J	
			CTC1107		R 241		RS1/16S202J	•
		L 51 Ferri-Inductor	LAU150K		R 243		RS1/16S183J	
					R 244		RS1/16S472J	

====Circuit Symool	& No. Part Name	Part No.			
Init Number : CWX	1964		C 203		CKSQYB104K1 CEV470M16
Init Name : Conti	rol Unit		C 303		CKSRYB103K2
			C 305 306		CCSRCH221J5
IISCELLANEOUS			C 501 C 502		CKSRYB471K5
		UPC2572GS	C 502		
101		UPD63702GF	C 602		CKSQYB104K1
201		XLA6997FP	C 701	22µF/6.3V	CCH1233
301 302		XRA6285FP	C 901 903		CCSRCH471J5
701		PQ05TZ51	C 902		CCSRCH271J5
. 701			C 904		CCSRCH101J5
101		2SD1664	Unit Number :		
102		UMD2N	Unit Name : Detector	PC Board	
701 702		1SR154-400 CL200IRX	Olik Marile . Detector		
801 802 801 802	LED Switch(Home, Clamp)	CSN1028	Q 1 2	Photo Transistor	CPT-230S-X
ESISTORS	•		Unit Number : CWX192	2(DEX-P99/UC)	
	-	001001001	Unit Name : High Out	tput Unit	
101 102		RS1/8S100J RS1/8S120J	MISCELLANEOUS		
		RS1/16S102J			
103 104		RS1/16S822J	IC 4151 4251 4351		NJM4558MD
104 105		RS1/16S682J	Q 4151	2	IMH3A
100			Q 4251 4351		IMH3A
106		RS1/16S183J	D 4151 4251 4351		MA151WA
107		RS1/16S822J		DC-DC Converter Unit	CWM4538
108		RS1/16S333J			
108 109		RS1/16S683J	RESISTORS		
110		RS1/16S134J	VESIS I OUS		
***		RS1/16S273J	R 4051	,	RD1/2PS271J
111 112		RS1/16S222J	R 4151 4351 4352		RS1/10S473J
113 114		RS1/16S103J	R 4152		RS1/16S473J
115		RS1/16S102J	R 4153 4154 4156 4253 4	255 4353 4354 4355 4356	RS1/16S103J RS1/10S103J
116 117		RS1/16S163J	R 4155 4254 4256		A3 I/ IU3 IU33
201		RS1/16S104J	R 4157 4257 4258 4357 4	1358	RS1/10S821J
202		RS1/16S473J	R 4158		RS1/16S821J RS1/10S223J
304		RS1/16S0R0J	R 4159 4160 4259 4260 4	1359 4360	RS1/105223J RS1/16S473J
502		RS1/16S222J	R 4251 4252		A3 I/ 1034/3J
503		RS1/16S0R0J	CAPACITORS		
504		RS1/16S102J			
R 504		RS1/16S102J	C 4053		CSZSC100M1
R 507		RA4C102J	C 4151 4152 4351 4352		CEA2R2M50L CEA100M16L
R 508		RA4C681J	C 4153 4254		CEA100M16L
R 510		RS1/10S0R0J	C 4154 4253 4353 4354 C 4155 4156		CKSYB105K1
		RS1/8S751J	C 4133 4130		
R 801 802		U2 1/82/2 IS	C 4157 4158		CKSQYB823K
****			C 4251 4252		CEA2R2M50L
CAPACITORS			C 4255 4256 4355 4356		CCSQCH221J
101 601 703		CEV101M6R3	C 4257 4357 4358		CCSQCH820
102	-	CKSQYB104K16	C 4258		CCSQCH820
103		CEV470M6R3	Unit Number : CWM45	SOUNEY-POORICY	
C 104		CKSYB334K16 CCSRCH330J50	Unit Number : CWM4: Unit Name : DC-DC	Converter Unit	
105		CCSKCH33W30			
106 304		CKSRYB103K25	MISCELLANEOUS		
107		CEV4R7M35			TL1451ANS
108	*	CKSQYB273K50	IC 4001		2SA1797
109		CCSRCH101J50	Q 4001		2SC2812
110 202		CKSQYB104K16	Q 4002 Q 4003		2SA1179
		CKSRYB332K50	Q 4004		2SA1576
C 111 C 112		CKSQYB473K16			
C 112 C 113		CKSRYB103K25	Q 4005		DTC124EU
114		CKSRYB391K50	D 4001		SC802-06 CTH1164
115	ν̄.	CCSRCH121J50	L 4001 4002 4003	Choke Coil 220H	CIM1164
		CKSRYB682K25	RESISTORS		
C 116 C 117		CKSRYB333K16			
C 118 201		CKSYB334K16	R 4001		RS1/10S122.
C 119		CKSYB334K16	R 4002		RS1/10S473.
C 120 121 702		CKSYB334K16	R 4003		RS1/4S681J
			R 4004		RS1/10S101. RN1/10SE33
		CKSQYB104K16	R 4005		MIN I/ 103233
C 122 124		CKSRYB472K50	D 4006		RN1/10SE12
C 123		CCSRCH060D50	R 4006		RS1/10S104
C 123 C 125					
C 123 C 125 C 126		CKSRYB153K25	R 4007		RN1/10SE62
C 123 C 125		CKSRYB153K25 CCSRCH102J25	R 4007 R 4008 R 4009 4010		RN1/10SE62 RS1/10S223

Circuit Symbol & No. Pa	nt Name	Part No.	***	Circuit Sy	mbol & No. Part Name	Part No.
R 4012 4013		RN1/10SE103D	C 4	013		CKSQYB104K25
R 4016		RS1/10S754J				
R 4017		RN1/10SE912D	Mis	cellaneous P	arts List	
R 4018		RN1/10SE153D				
R 4019		RN1/10SE303D			PU Unit	CGY1070
			м	1	Motor Unit(Spindle)	CXA9101
CAPACITORS			M	2	CRG Motor Unit(Carriage)	CXA8986
			M	3	Load Motor Unit(Loading)	CXA8702
C 4001 4003 4006 4008 C 4002 4005 4009 4010 4014 C 4004 C 4011 C 4012	33µF/25V	CCH1249 CKSQYB102K50 CCSQCH101J50 CKSQYF105Z16 CCSQCH221J50				

● The DEH-P825/UC, DEH-P823/ES, and DEX-P99/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P825/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P825R/EW Parts List is given on page 29.

Tuner	Amn	Unit	11

	DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
Circuit Symbol & No.	Part No.	Part No.	Part No.	Part No.
IC551	PAL003A	PAL003A	PAL003A	*****
IC601	PD4630A	<sup>4</sup> PD4629A	PD4630A	PD4629A
IC701	PD6164A	PD6165A	****	PD6165A
IC702	SC14SU69F	*****	*****	*****
IC703	PMW001A	••••	•••••	*****
IC704	••••	PD4633A	••••	PD4633A
IC931	••••	••••	*****	TPD1018F
Q551	IMH1A	IMH1A	IMH1A	*****
Q701	DTC143TK	*****	••••	••••
Q834,835	2SD1757K	****	••••	••••
Q881-883	ІМНЗА	ІМНЗА	ІМНЗА	•••••
Q941	2SA1162	*****	2SA1162	****
Q961	••••	••••	*****	IMD2A
Q962	****		****	2SC2712
D701	MA3047M	••••	*****	•••••
D702,831	MA151K	••••	****	*****
D881-883	MA151WA	MA151WA	MA151WA	••••
D931,932,961,962	••••	*****	•••••	ERA15-02VH
D941	MA151WK	*****	MA151WK	*****
D964	••••	*****	*****	BR4361F
L701	LAU2R2K	LAU2R2K	••••	LAU2R2K
L702	****	LAU2R2K	••••	LAU2R2K
L703	LCTB2R2K3216		*****	••••
L941	LAU2R2K	****	LAU2R2K	****
L961	••••	,	••••	LAU2R2K
X701	CSS1056 (4.332MHz)	CSS 1338 (4.330MHz)	••••	CSS 1338 (4.330MHz
VR701	CCP1123	****	****	*****
FM/AM Tuner Unit	CWE1416	CWE1417	CWE1417	CWE1417
High Output Unit	*****	*****	****	CWX1922
R502	RS1/16S472J	••••		••••
R509	RS1/16S0R0J	RS1/16S0R0J	****	RS1/16S0R0J
R514	RS1/16S105J	RS1/16S105J	****	RS1/16S105J
R528	RS1/16S473J	RS1/16S0R0J	RS1/16S0R0J	RS1/16S0R0J
R551,552,554	RS1/16S103J	RS1/16S103J	RS1/16S103J	••••
R553	RS1/16S331J	RS1/16S331J	RS1/16S331J	*****

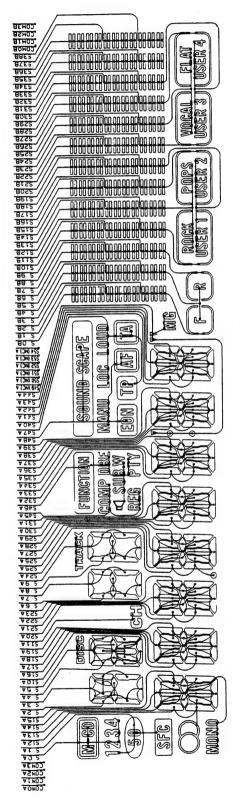
ner Amp Unit(2/3)	DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
Circuit Symbol & No.	Part No.	Part No.	Part No.	Part No.
R555	RS1/16S101J	RS1/16S101J	RS1/16S101J	*****
		RS1/16S473J	*****	RS1/16S473J
R601-603	RS1/16S473J		****	RS1/16S472J
R614 .	RS1/16S472J	RS1/16S472J	1	1131/1034/23
R615	RS1/16S473J	RS1/16S473J	*****	
R632	RS1/16S473J	RS1/16S473J	RS1/16S563J	RS1/16S433J
R633	••••	*****	RS1/16S433J	RS1/16S563J
R634	*****	****	*****	RS1/16S683J
R635	RS1/16S473J	RS1/16S473J	RS1/16S473J	RS1/16S303J
	113 1/1034/33	*****	*****	RS1/16S473J
R636				*****
R637	RS1/16S473J	RS1/16S473J	RS1/16S473J	-
R639	RS1/16S473J	RS1/16S473J	••••	RS1/16S473J
R701	RA3C681J	*****	*****	••••
R702	RS1/16S0R0J	••••	****	*****
R703	RS1/16S101J	••••		****
		1	••••	RS1/16S681J
R704	RS1/16S681J	RS1/16S681J		NO 1/ 1000013
R705,712	RS1/16S681J	RS1/16S681J	****	RS1/16S681J
R706	RS1/16S0R0J	••••	*****	••••
R707	RS1/16S473J	*****	****	*****
R708	RS1/16S681J	*****		••••
R709	RS 1/16S562J	*****	••••	
n/u <del>3</del>	na I/ 103502J			
R710	RS1/16S222J	RS1/16S0R0J	•••••	RS1/16S0R0J
R711,717	RS1/16S681J	****	****	*****
R713.735	RS1/16S473J	RS1/16S473J	****	RS1/16S473J
R714	RA3C681J	RA3C681J	*****	RA3C681J
R718-722,748-751	*****	RS1/16S473J		RS1/16S473J
R724	RS1/16S102J	*****	*****	••••
R725	RA3C102J	*****	•••••	*****
R728,729	RS1/10S102J	*****	*****	*****
R730	R\$1/16S0R0J	*****	•••••	****
R731	RS 1/16S333J	••••	****	••••
R732	DC1/10C1E1 I			
	RS1/10S151J	1		••••
R733	RS 1/16S222J	••••		1
R734	RS1/16S102J	•••••	****	****
R736	RS1/16S223J	****	****	****
R738	RS1/16S223J	••••	****	*****
R752-764,766-768,770	••••	RS1/16S102J		RS1/16S102J
R765,769,771	*****	RS1/10S102J	*****	RS1/10S102J
		RS1/16S102J	••••	RS1/16S102J
R772-779	*****			
R805,806	*****	*****	1	RS1/16S102J
R818,819	••••	••••	****	RS1/16S103J
R837,838	RS1/16S332J	RS1/16S182J	RS1/16S182J	RS1/16S182J
R843,844	RS1/16S224J	*****	****	****
			****	****
R845	RS1/16S824J			
R876,877 R881,882,887,888,891,892	RS1/16S184J RS1/16S821J	RS1/16S184J RS1/16S821J	RS1/16S184J RS1/16S821J	RS1/16S0R0J
	7 10002 10	1.0.1, 10002.10		
R883-886,889,890	RS1/16S223J	RS1/16S223J	RS1/16S223J	••••
R941	RS1/10S183J	*****	RS1/10S183J	*****

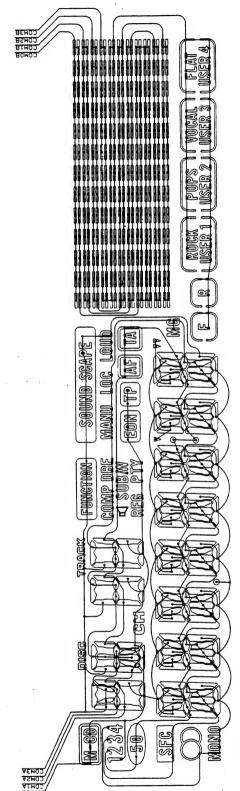
er Amp Unit(3/3)	DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
		Part No.	Part No.	Part No.
Circuit Symbol & No.	Part No.	Part No.	RS1/16S472J	*****
R942,943	RS1/16S472J		RS1/16S102J	*****
R944	RS1/16S102J		MS 1/103 1023	RS1/10S103J
R961	*****	*****	1	
R962		*****	*****	RS1/10S223J
R963	****	*****	*****	RS1/10S272J
R965			••••	RS1/10S103J
	••••			RS1/10S102J
R966				RS1/10S0R0J
R967		••••	****	*****
C503	CEAR47M50LL		CKSQYB103K25	••••
C505	••••	*****	CKSQTBT03K23	
C533	CKSQYB152K50	•••••	••••	••••
C551-554	CKSYB224K16	CKSYB224K16	CKSYB224K16	*****
C555	CEA330M16LL	CEA330M16LL	CEA330M16LL	*****
	CEA010M50LL	CEA010M50LL	CEA010M50LL	*****
C556,560		CEA220M16LL	CEA220M16LL	
C557	CEA220M16LL	CEAZZOWITCLE	CEAZZONTOLL	
C561	CKSQYB104K50	CKSQYB104K50	CKSQYB104K50	•••••
C701	CKSQYB103K25	CKSQYB103K25	*****	CKSQYB103K25
C702	CKSQYB104K16	CKSQYB104K16	••••	CKSQYB104K16
	CKSQYB102K50	CKSQYB102K50	•••••	CKSQYB102K50
C704		****		••••
C705,706	CCSQCH270J50	-		
C707,716	CEA100M16LL	*****	****	*****
C708,715	CKSQYB103K25	*****	****	*****
C709	CKSQYB102K50	••••	****	****
C710	CKSQYB472K50	*****	*****	*****
	CKSQYB104K16		*****	*****
C711	CKSQ1B104K10			
C712	CSZS010M16	*****	*****	*****
C713	CKSYB104K16	****	••••	*****
C714	CKSQYB222K50	*****	*****	*****
	CKSQ1 DZZZKSO	CEA100M16LL	*****	CEA100M16LL
C717		****		*****
C718	CKSQYB103K25			
C720	CEA4R7M16NPLL	*****	••••	••••
C722	CKSQYB103K25	*****	*****	*****
C723,724	CCSQCH330J50	*****	*****	****
C725,724	CKSQYB471K50	*****	*****	••••
C726	CCSQCH101J50	****	••••	*****
C/26	CCGCCTTOTOGG			
C730	CSZA010K25	*****	••••	
C825,826	****	*****	*****	CEA010M50LL
C839.840	CKSQYB223K25	CKSQYB473K16	CKSQYB473K16	CKSQYB473K16
C841	CKSQYB103K25	****	*****	•••••
C881,882,885,886,889	CEA100M16LL	CEA100M16LL	CEA100M16LL	*****
		CCCOCHANA IFO	CCSQCH221J50	••••
C883,884,887,888,891,89		CCSQCH221J50		••••
C890	CEA100M16LL	CEA100M16LL	CEA100M16LL	
C894,895	CKSYB105K16	CKSYB105K16	CKSYB105K16	****
C931	••••	*****	*****	CKSQYB473K50
C961	*****	*****	*****	CKSQYB103K50

W. Daniel Hate				
Key Board Unit	DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
Circuit Symbol & No.	Part No.	Part No.	Part No.	Part No.
LCD901	CAW1332	CAW1333	CAW1333	CAW1363
BA035 A036	RS1/16S102J	RS1/16S102J	RS1/16S102J	RS1/16S473J

#### 9. LCD

#### CAW1332(DEH-P825R/EW)



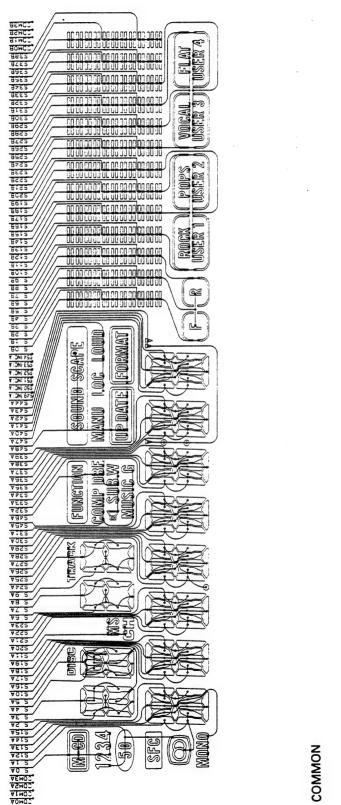


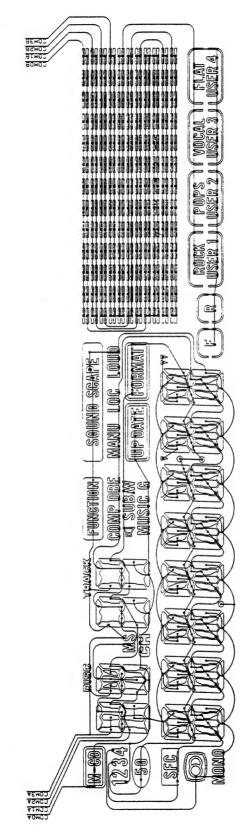
COMMON

SEGMENT

Fig.5

#### • CAW1333(DEH-P825/UC,P823/ES),CAW1363(DEX-P99/UC)

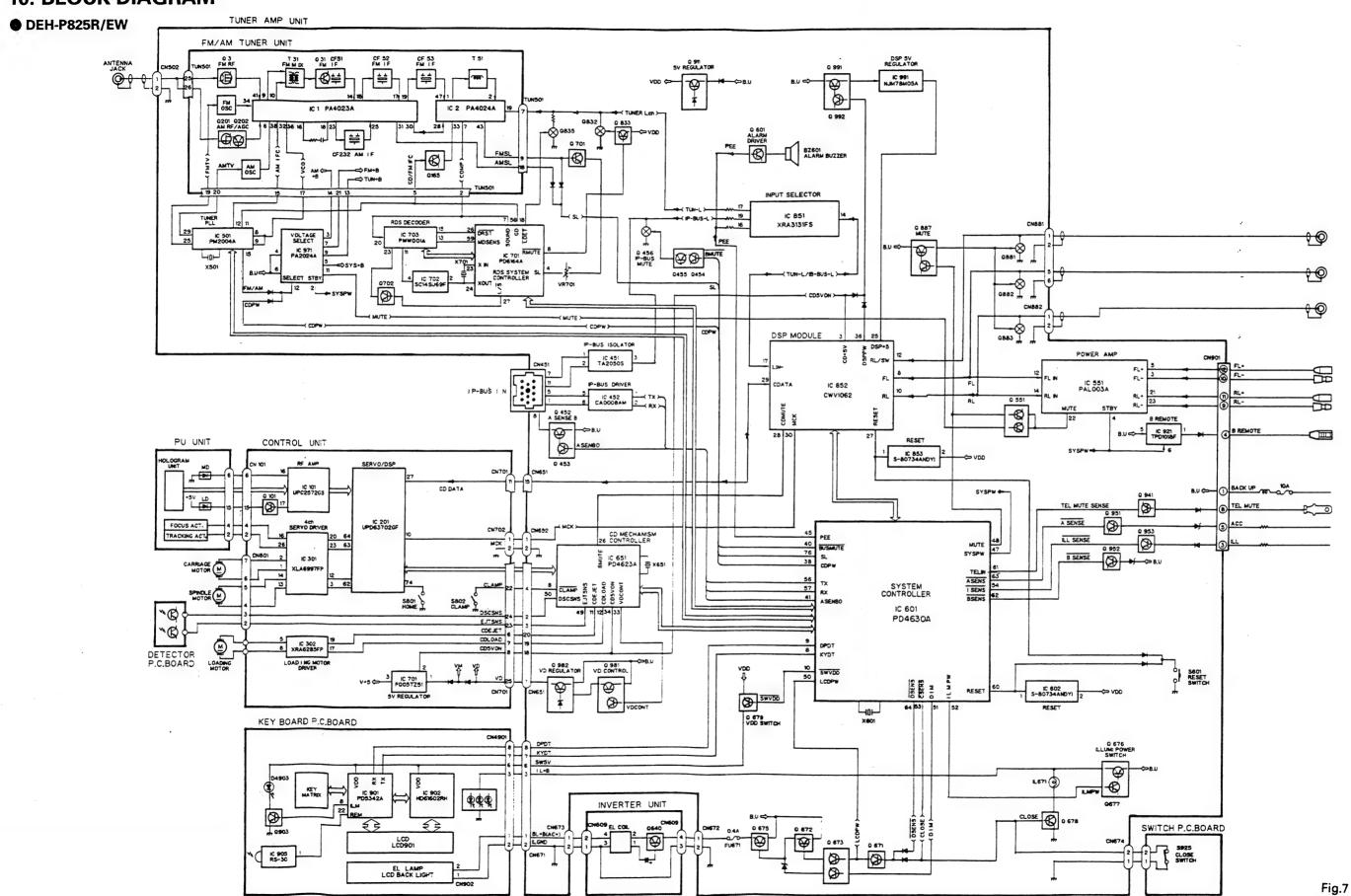




SEGMENT

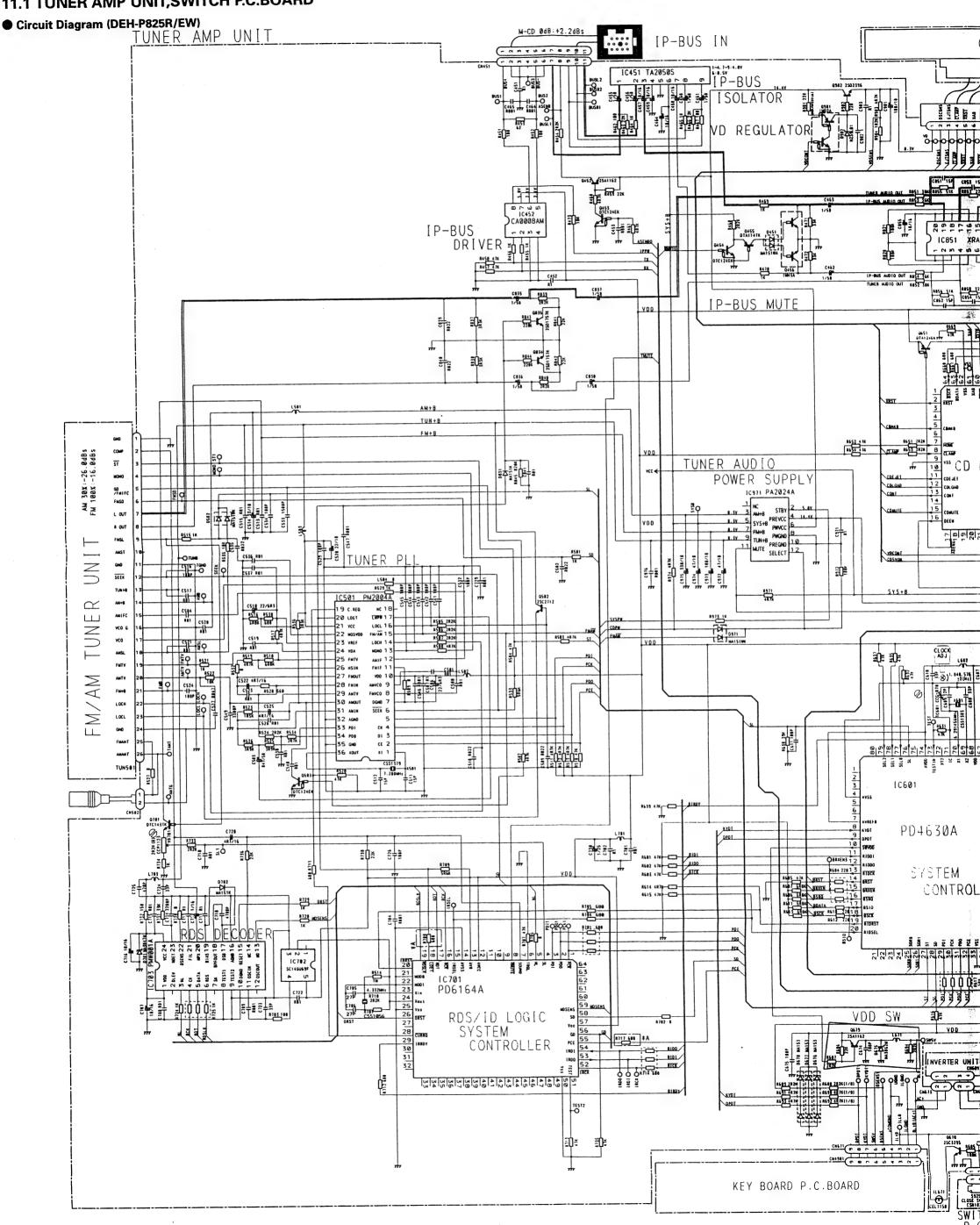
Fig.6

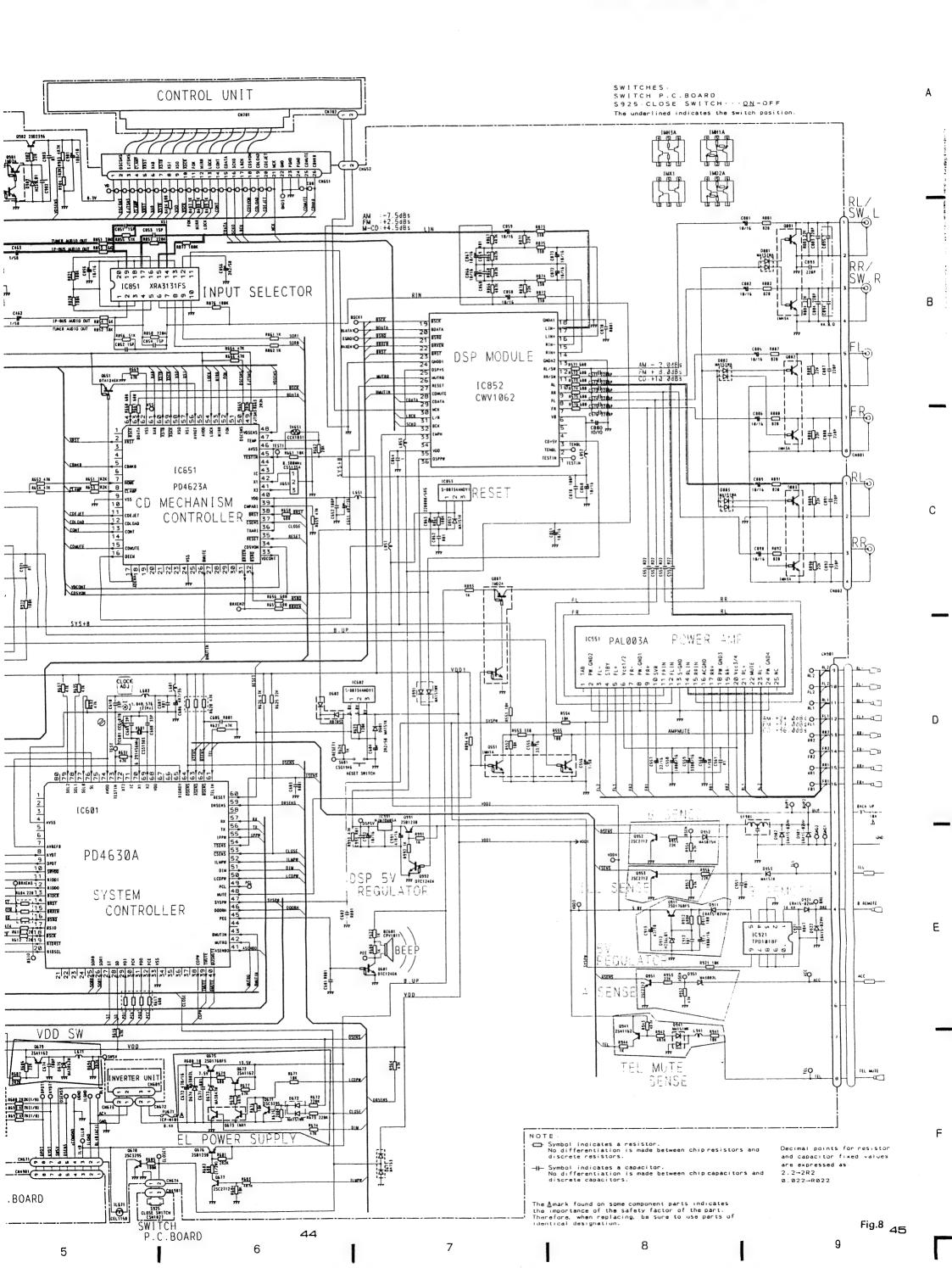
#### 10. BLOCK DIAGRAM

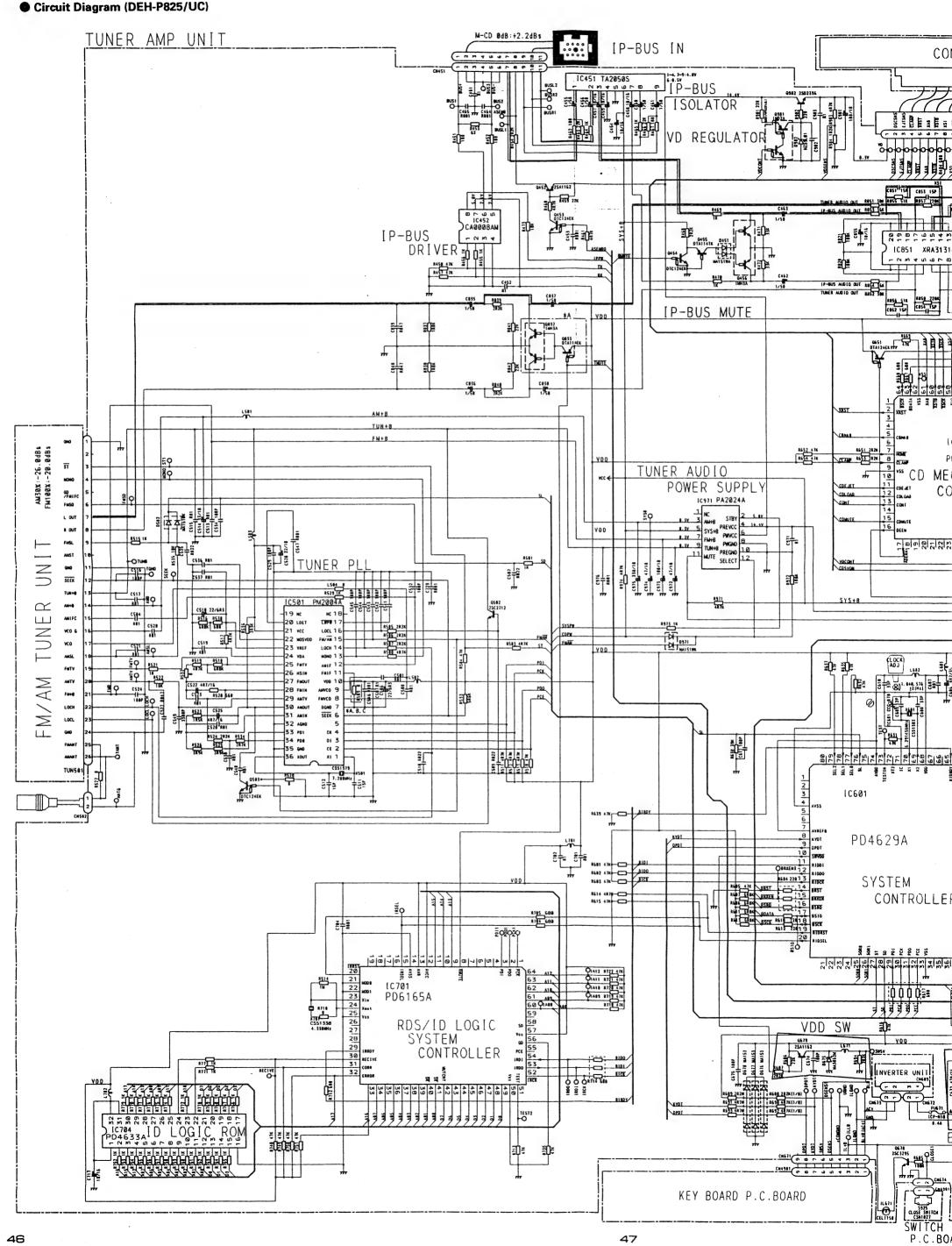


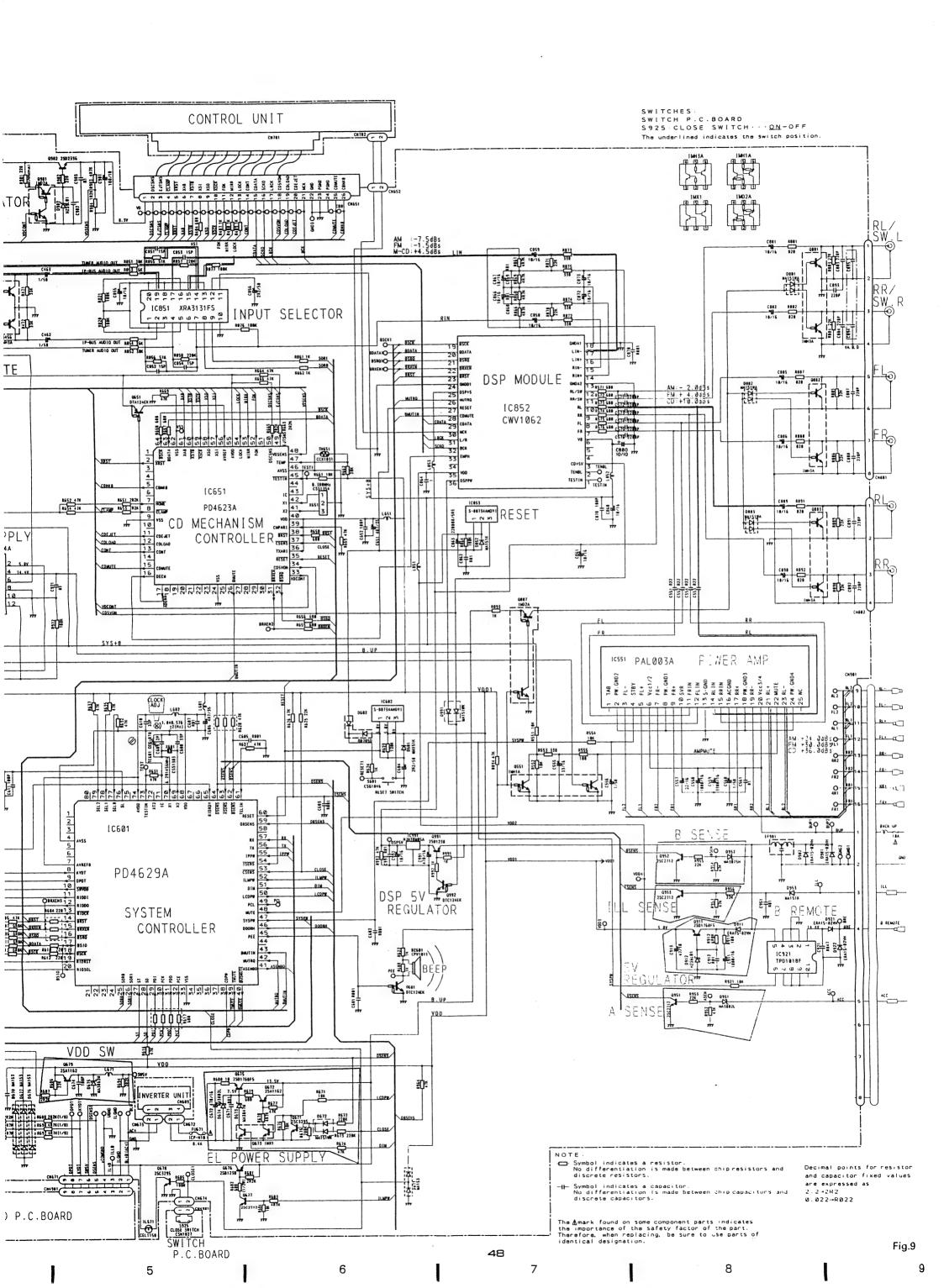
#### 11. CIRCUIT DIAGRAM AND PATTERN

#### 11.1 TUNER AMP UNIT, SWITCH P.C.BOARD



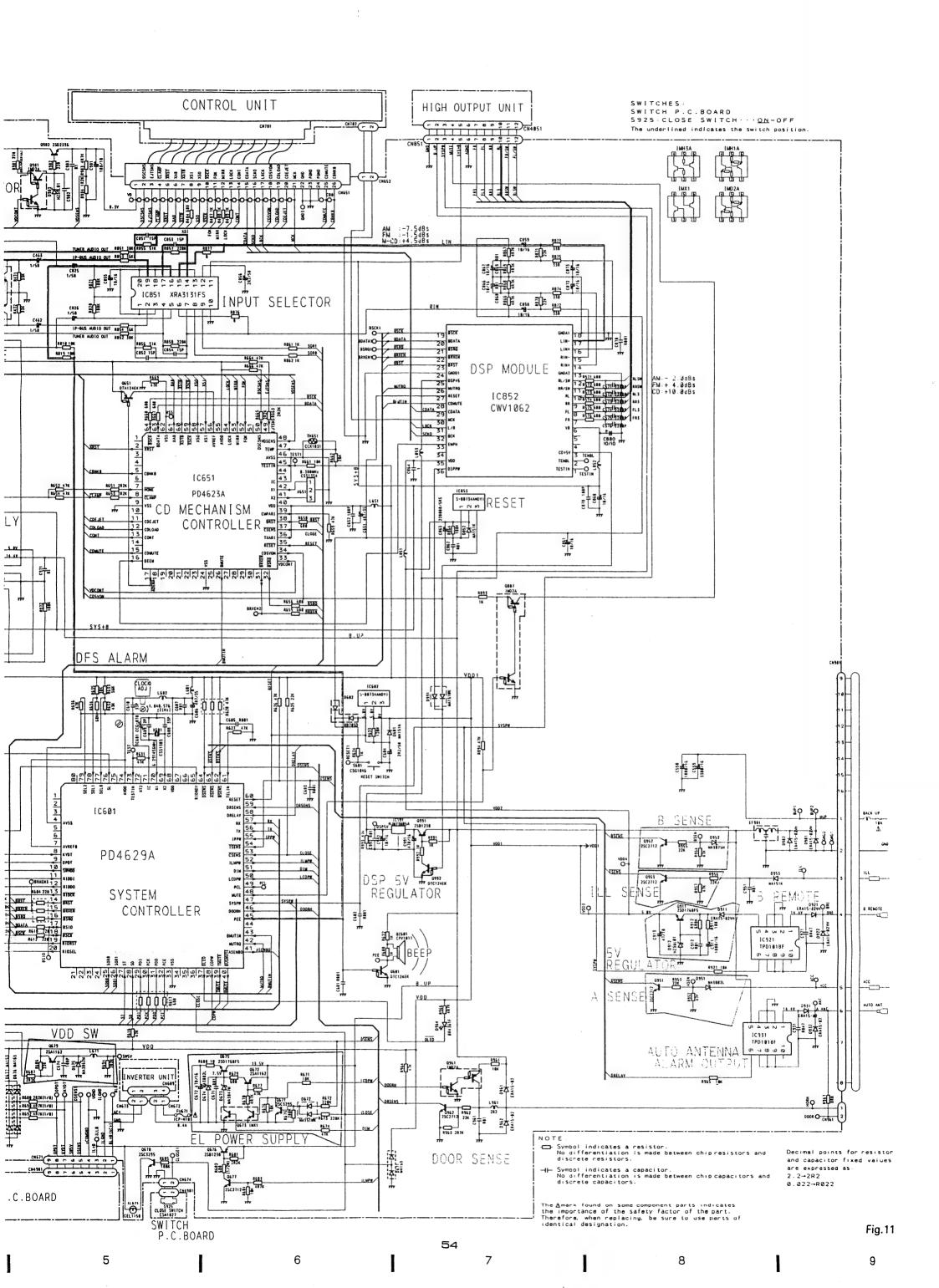


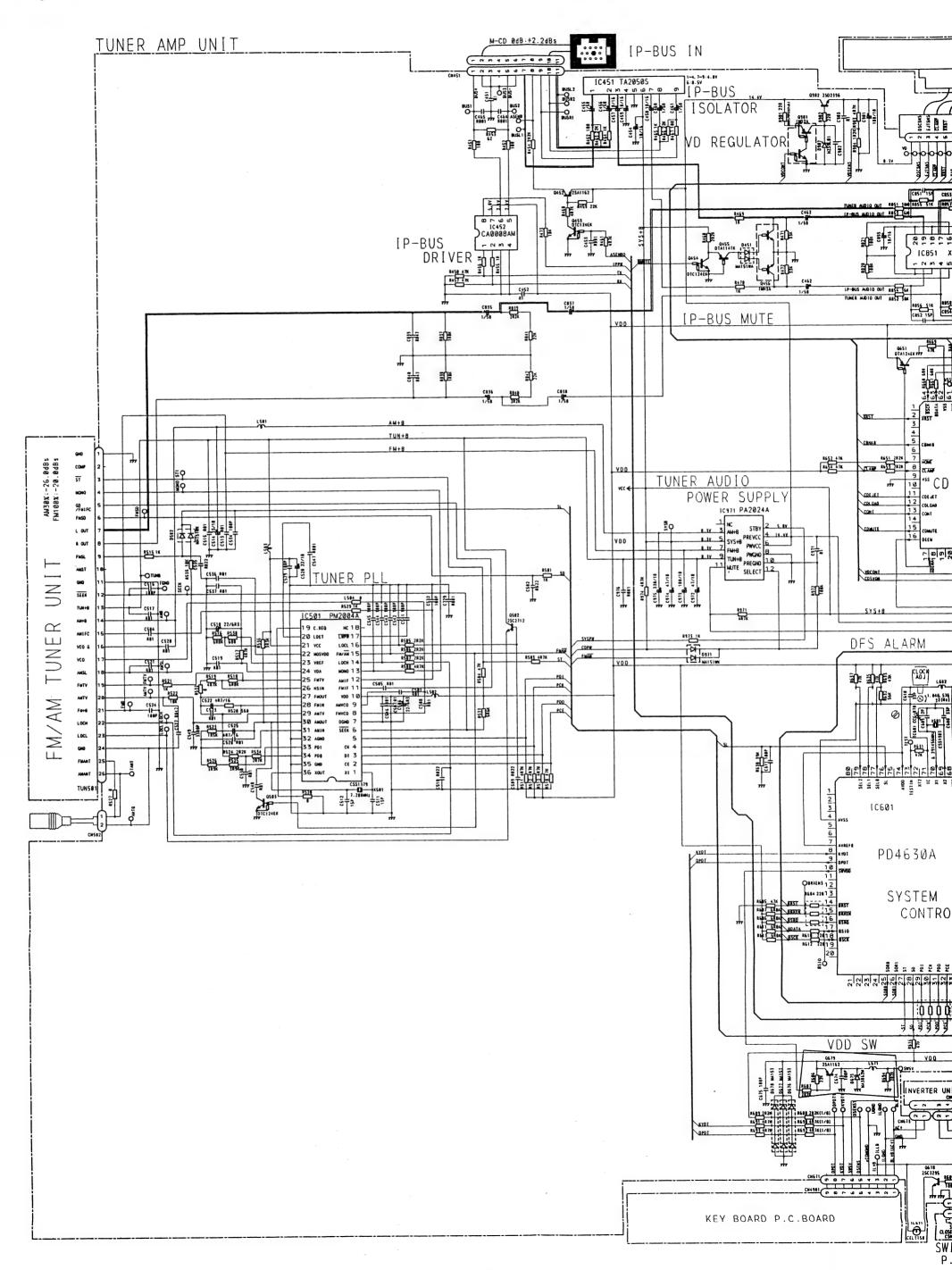


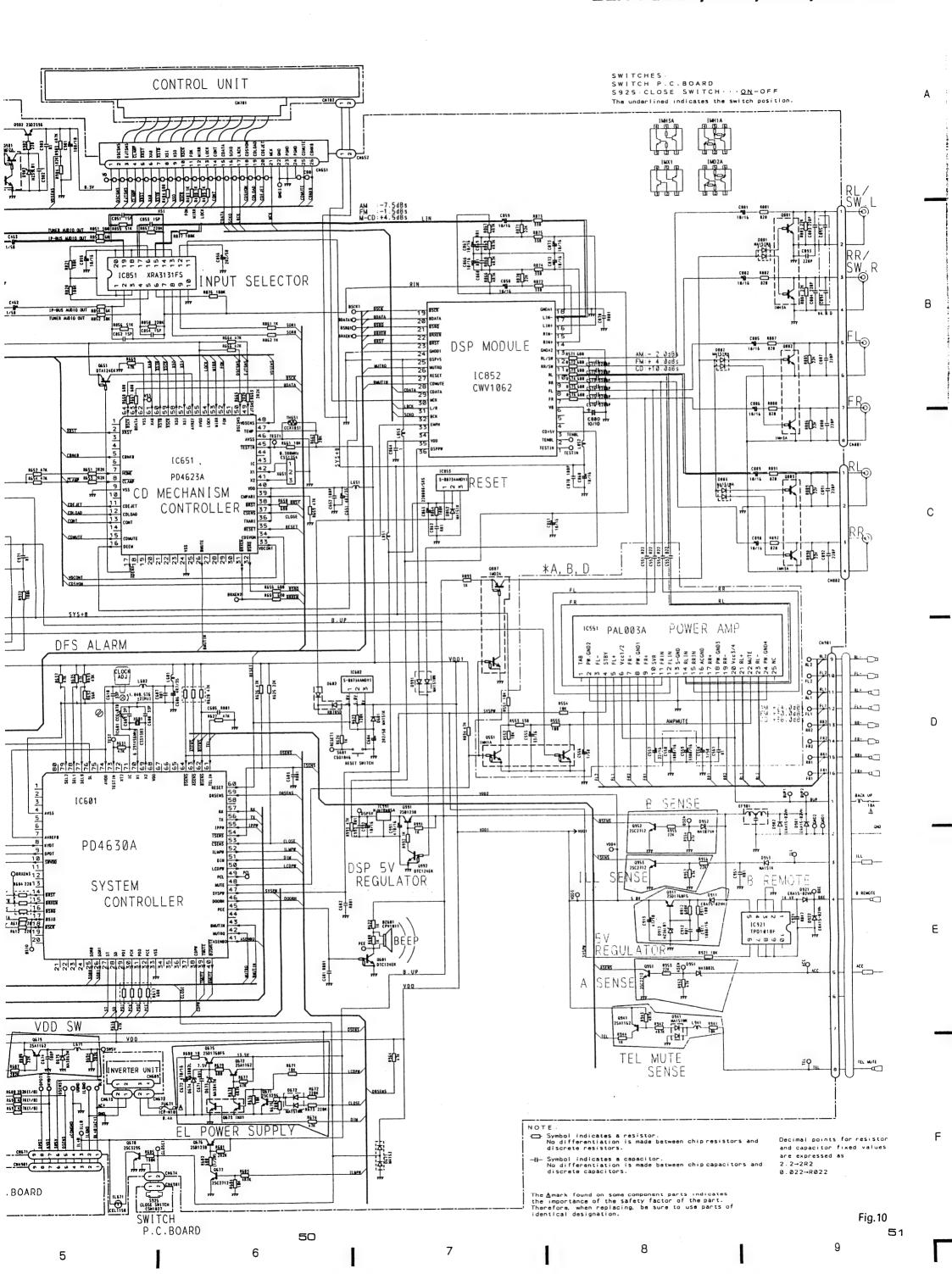


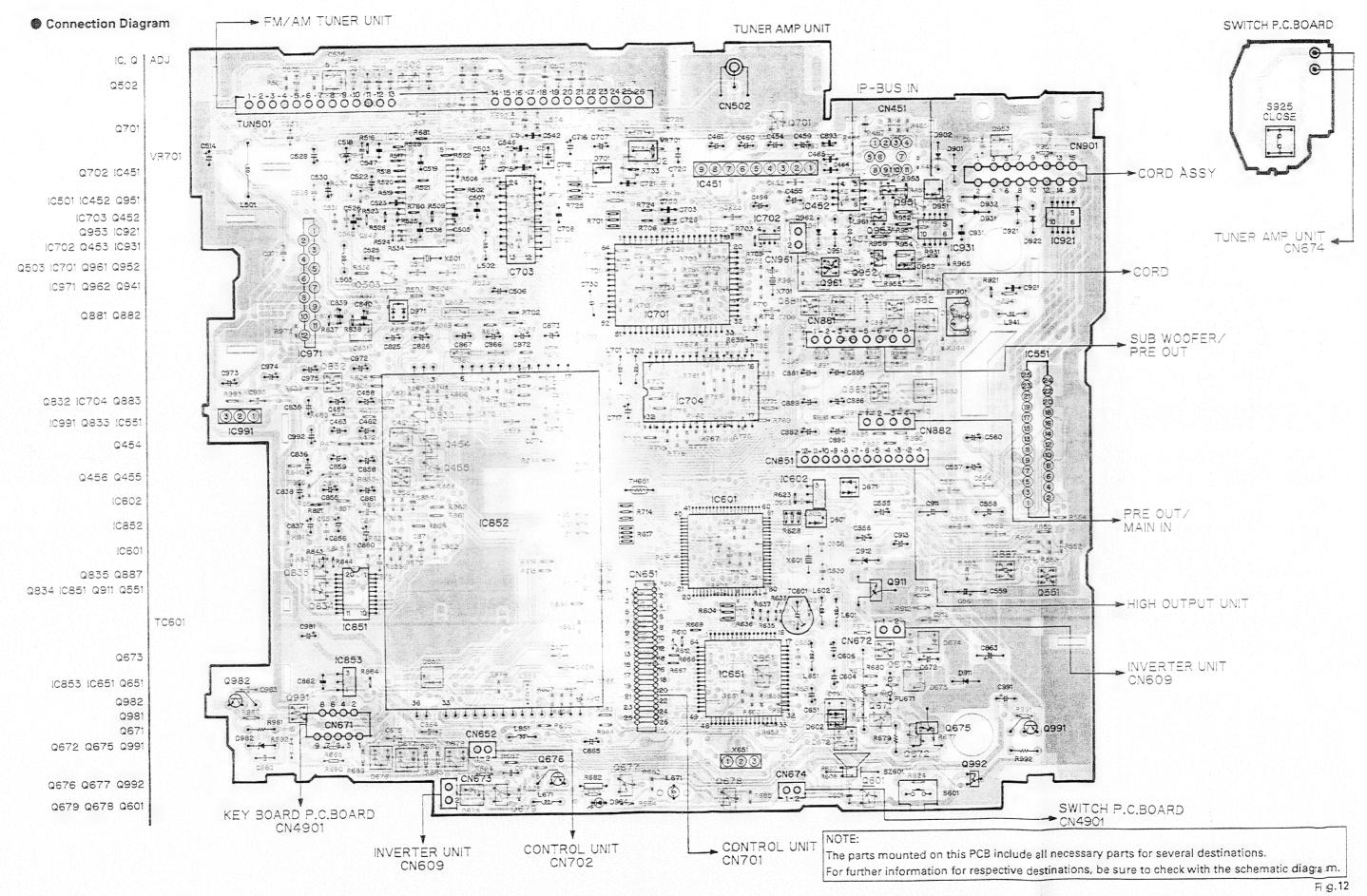
#### DEH-P825R,P825,P823,DEX-P99 ● Circuit Diagram (DEX-P99/UC) TUNER AMP UNIT IP-BUS IN IP-BUS ISOLATOR VD REGULATOR 80.00 IP-BUS DRIVER TO OF IC851 IP-BUS AUDIO OUT REST SK В P-BUS MUTE VDD **₩ 10** 1 2 XEST 4 5 ST TUNER AUDIO POWER SUPPLY 10971 PA2024A FMSD 5 SYS+8 PREVCC 7 FM+B PWCCC 9 TUN+B PREGNO 11 MJTE SELECT R OUT 8515 IK ¥ (15) COS 318/18 COS 318/18 COS 318/18 COS 318/18 COS 318/18 COS 318/18 ž+= 颤 SEEK TUNE IC501 PM2004A VCO G DFS ALARM LOCL 1 [D] [D] [MA151WK 8583 4R7K FM/AM VDD ξQ **10** FMTV ξQ \$ 0 10 CE = ± ⊗1. \*\*\* FM+8 (E) LOCH OGNO 7 D CK 4 DI 3 CE 2 XI 1 1 2 3 4 IC601 PD4629A R603 47K RICK R684 220 1 3 SYSTEM A 5 1/6 ABST - 1-1 5 INCK A 6 1/6 ABST - 1-1 5 INCK A 6 1/6 ABST - 1-1 5 INCK A 6 1/6 ABST - 1-1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A 6 1 7 6 1 6 INCK A 6 1/6 ABST A CONTR वे वे वे 7 3 3 3 3 VDD SW **∄**

24 Xout
25 733
26 27 28 29 18RDY
30 RECIVE
31 CORR
ERROR RDS/ID LOGIC SYSTEM CONTROLLER YDO Qsvsv INVERTER U O O OATIT THE RECTVE C. \$ \$ \$ \$ \$ F KEY BOARD P.C.BOARD 52 53 1 2 3 5 4



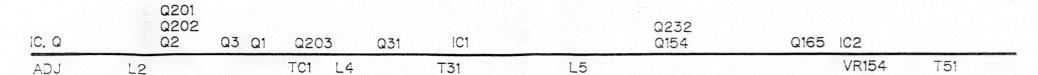


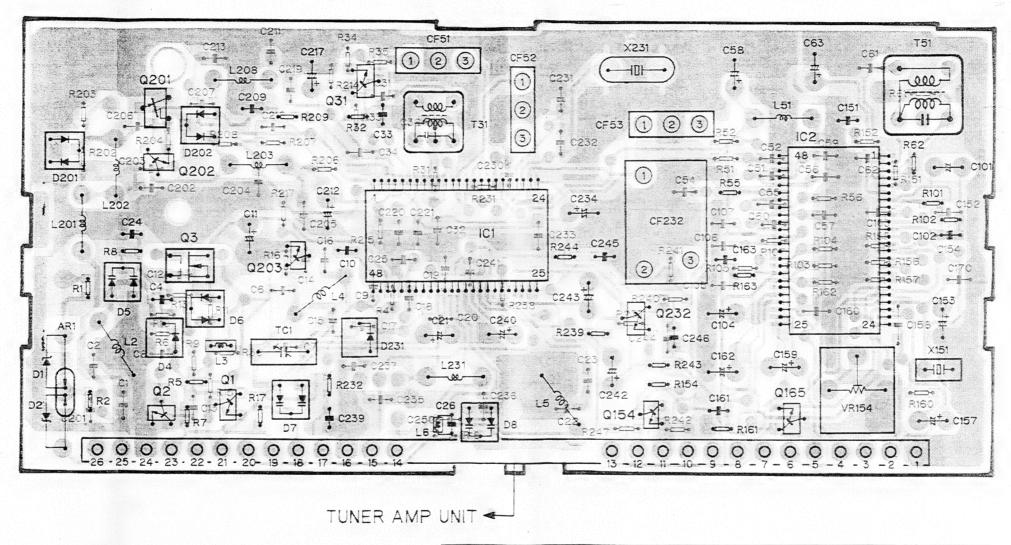




#### 11.2 FM/AM TUNER UNIT

Connection Diagram



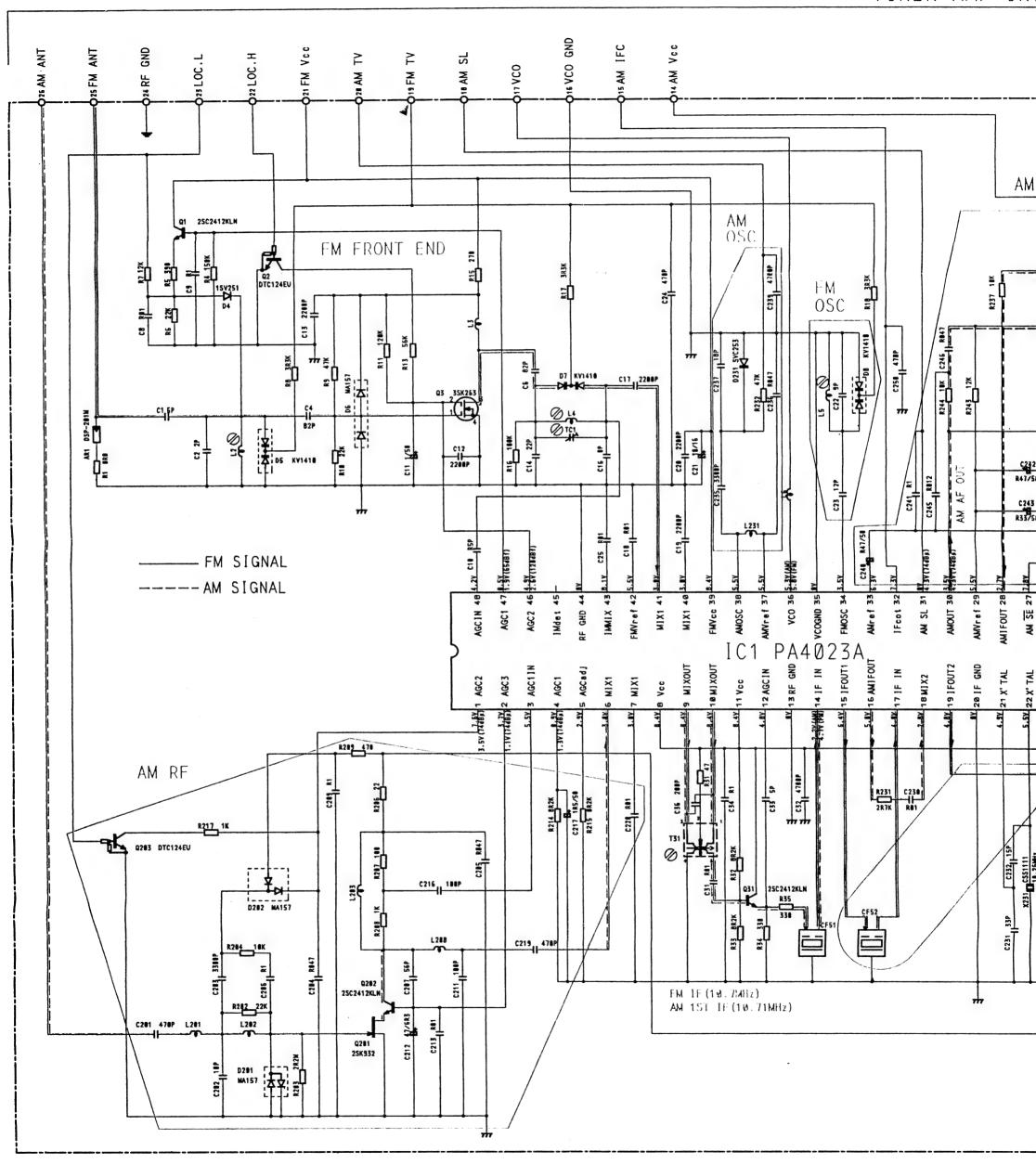


NOTE:

The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

ig.13



59

FUNER AMP UNIT on AF GND GND ST SD 12 SEEK . AM IST AM DET FM MPX LOOP F 24 3.9Y R244 18K C245 R84 C258 418P LOOP F 23 3.9Y 26 LPF WY (Auto) 2.8V (1FC) 27 REQ/MO ST 1 ND 22 VDD (MOHO) X151 CSS1365 C170 18P 4.0Y28 AMIN VCO 21 2ND IF (450KHz) 2.0V 29 DDSSENS X151:928.5KHz Rch 20 Lch 19 PNS AM AF OUT C244 R847 2.8Y31 ENVT C245 1812 AFGND 18 BY C243 R33/50 C163 R881 R163 2R2K R157 28K 2K 2,2Y 32 ENVSENS Q165 25C2412KLN AK. 0 TP7m 3V (654Bf R156 24K SDadj 16 R104 330K OTP6 AGC 21N 26 3 14 174 188 R247 12K HCCadj 15 C104 8-2R2/50 VR154 68K (B) CCP1211 ARCad | 14 1.8V C105 R81 R105 680K AM SL 31 AM SE 27 V 4 MPdet 13 1.1 AMVref 29 AMIFOUT 28 MPdet 13 3.8V(65487) C185 158P C187 R81 R187 2R2K 2,37 57 SMPNS C153 3R3/50 SUBB 11 3.6Y 2.8y C15 5.2V(65481) 39 IFC C103 6000P AN SD HOLD C 9 R56 82K R181 2R7K C182 1888P C56 R1 141 200kSD PNSIN e R182 GRBK C55 | R822 1.BY 42 SDr COMP C54 47P C151 4788P R231 2R7K 4.9V (654B) 43 SL MUTE S 3.9Y E C51 | R022 2.2V45 IFLPF C23 R1 C231111 C234 33/10 2.2446 IFVref **≅**Û≅ Q\_IN 2 3.9Y 751 0 1 FOUT 1 3.94 BY B IFGND FM IF

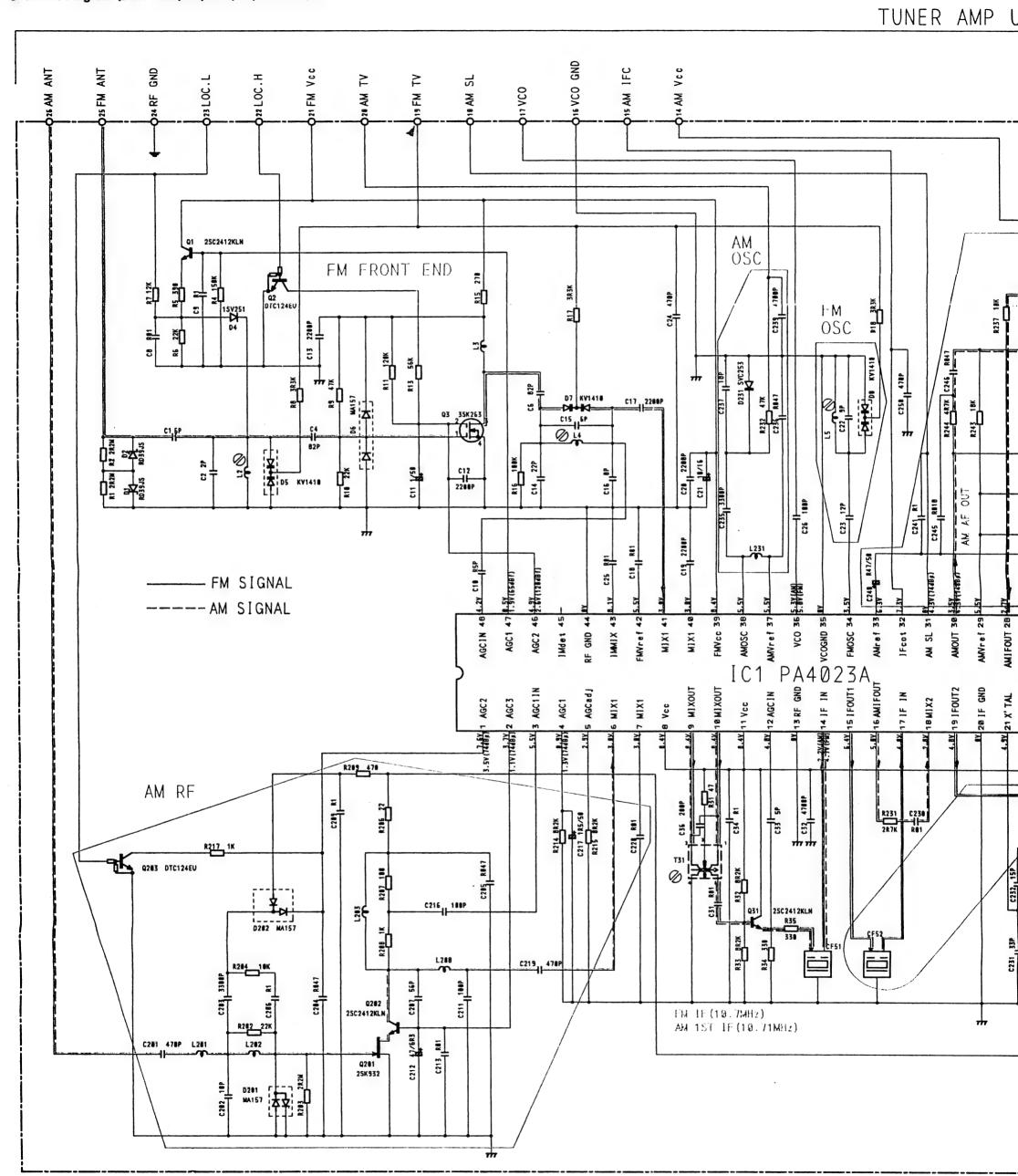
Fig.14

61

•

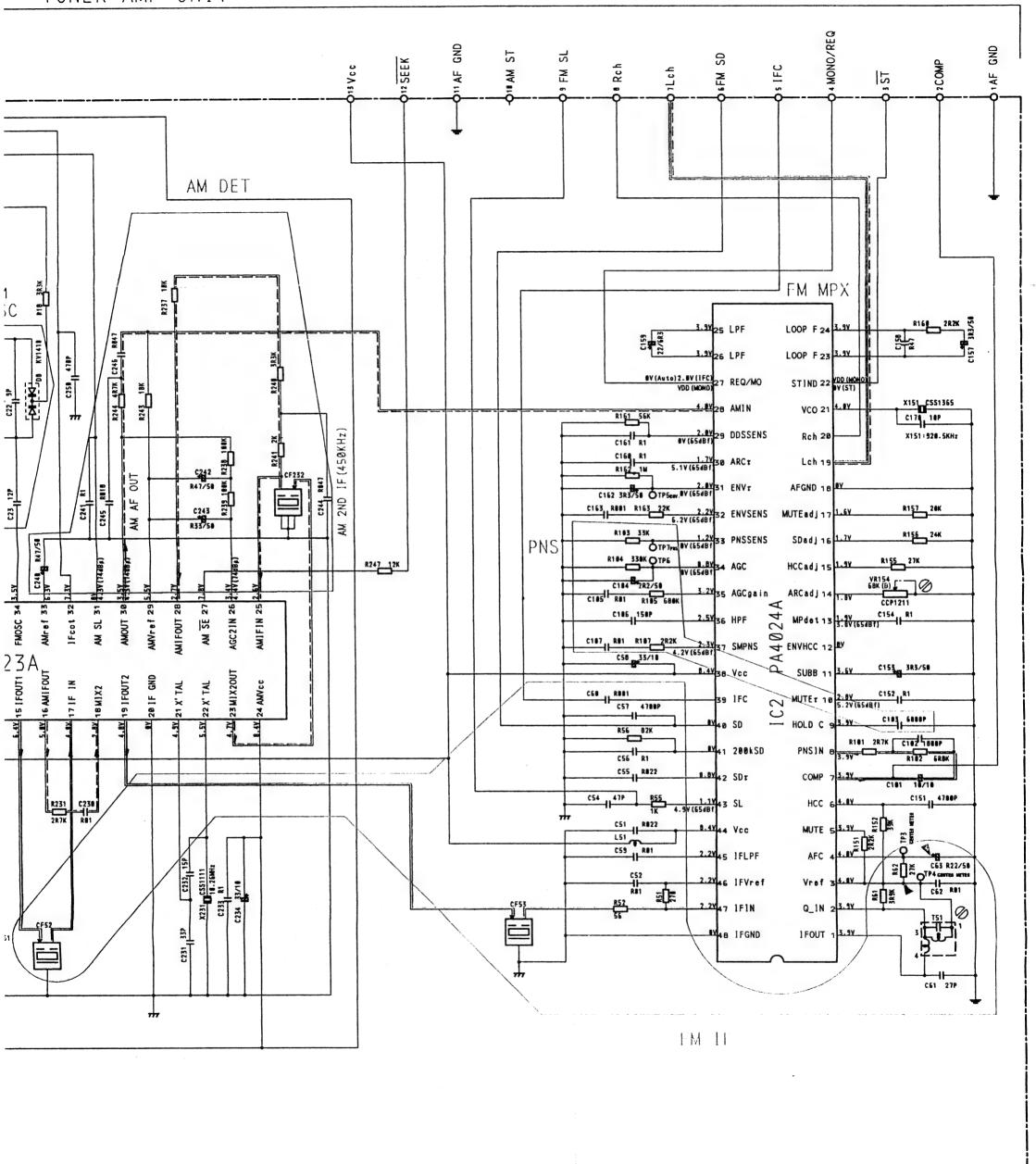
С

#### ● Circuit Diagram (DEH-P825/UC,P823/ES,DEX-P99/UC)



62

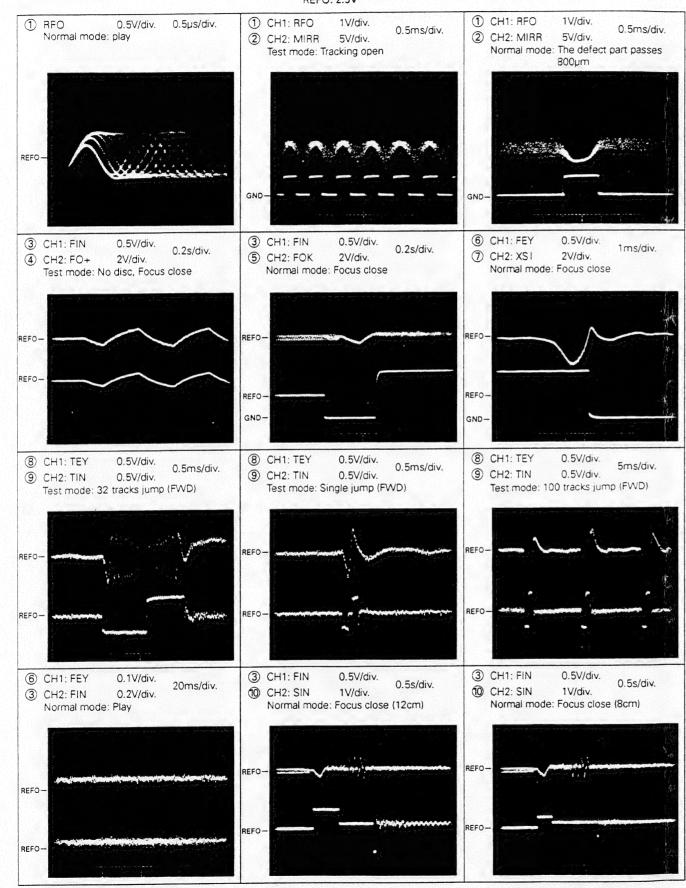
63

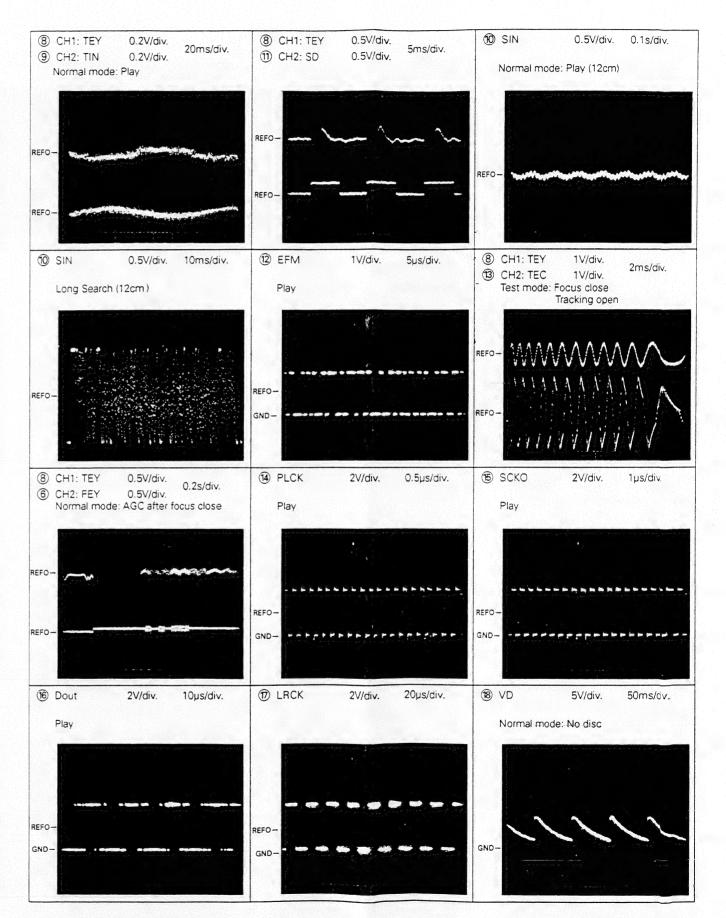


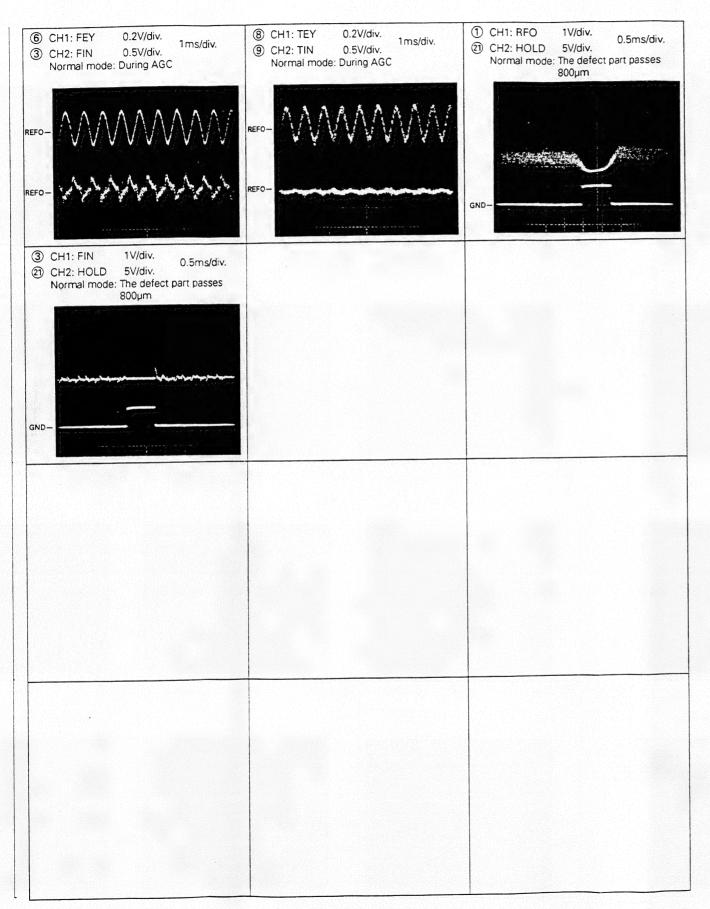
### Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.

2. Reference voltage REFO: 2.5V

Waveforms



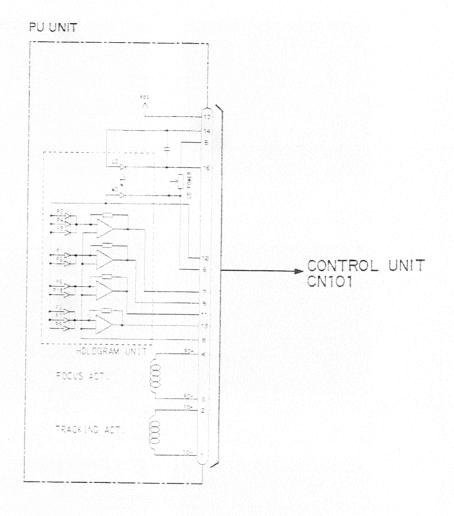


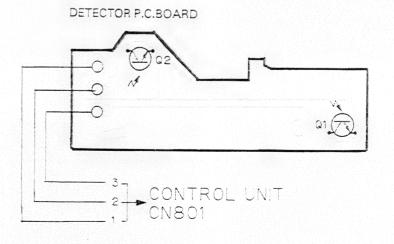


# DEH-P825R,P825,P823,DEX-P99

# 11.3 CD MECHANISM MODULE

Connection Diagram



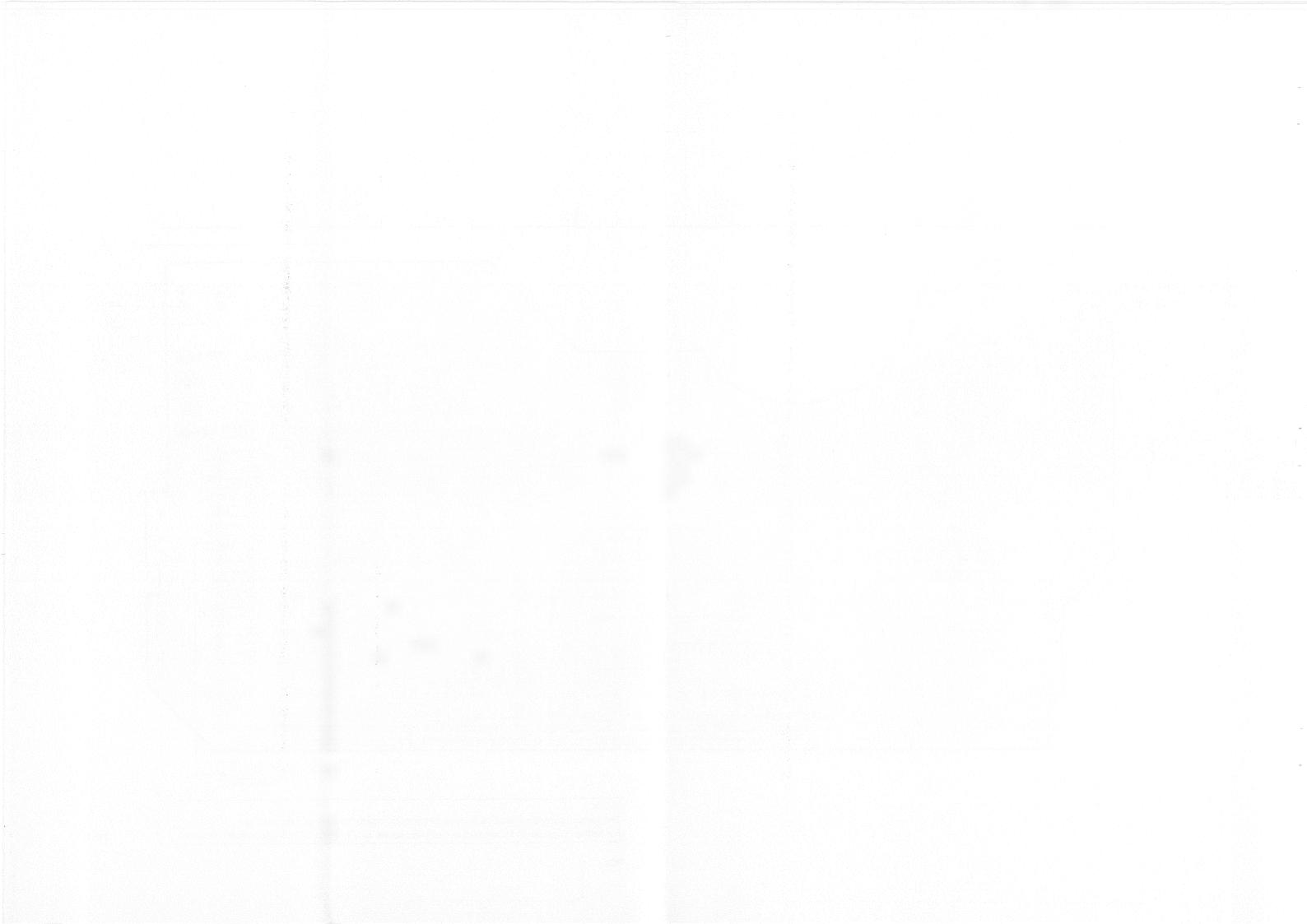


CONTROL UNIT IC101 Q602 Q101 IC302 IC201 Q102 IC, Q IC301 IC501 IC601 IC701 Q601 Q603 > PU UNIT C305 UNER AMP UNIT • [ • LM+ CN652 0 c306 C101 CN702 02 M3 LOADING MOTOR REFO O C107 C903 0 2 0 6 0 4 0 5 0 0 7 FO E O 19-R114 2 6123 CN701 TEYO C108 • # R302 19 65 , , , , , , , , , , , , , , , , , 80 C109 - 1 -C302 C103 R301 C601 R803 IC201 22 C121 3 C501 IC301 0802 T -R305 IC601 C120 R505 R202 R508 C607 C606 Q602 R606 R602 - # -C203 R604 • C604 R603 C60 0601 R605 C605 C603 R510 A R304 • **■ •** 0905 C702 \* 10701 C703 1080 R504 0702 \_\_C904 C303 2507 S802 CLAN - 14 . C701 D701 TUNER AMP UNIT CN651 NOTE:

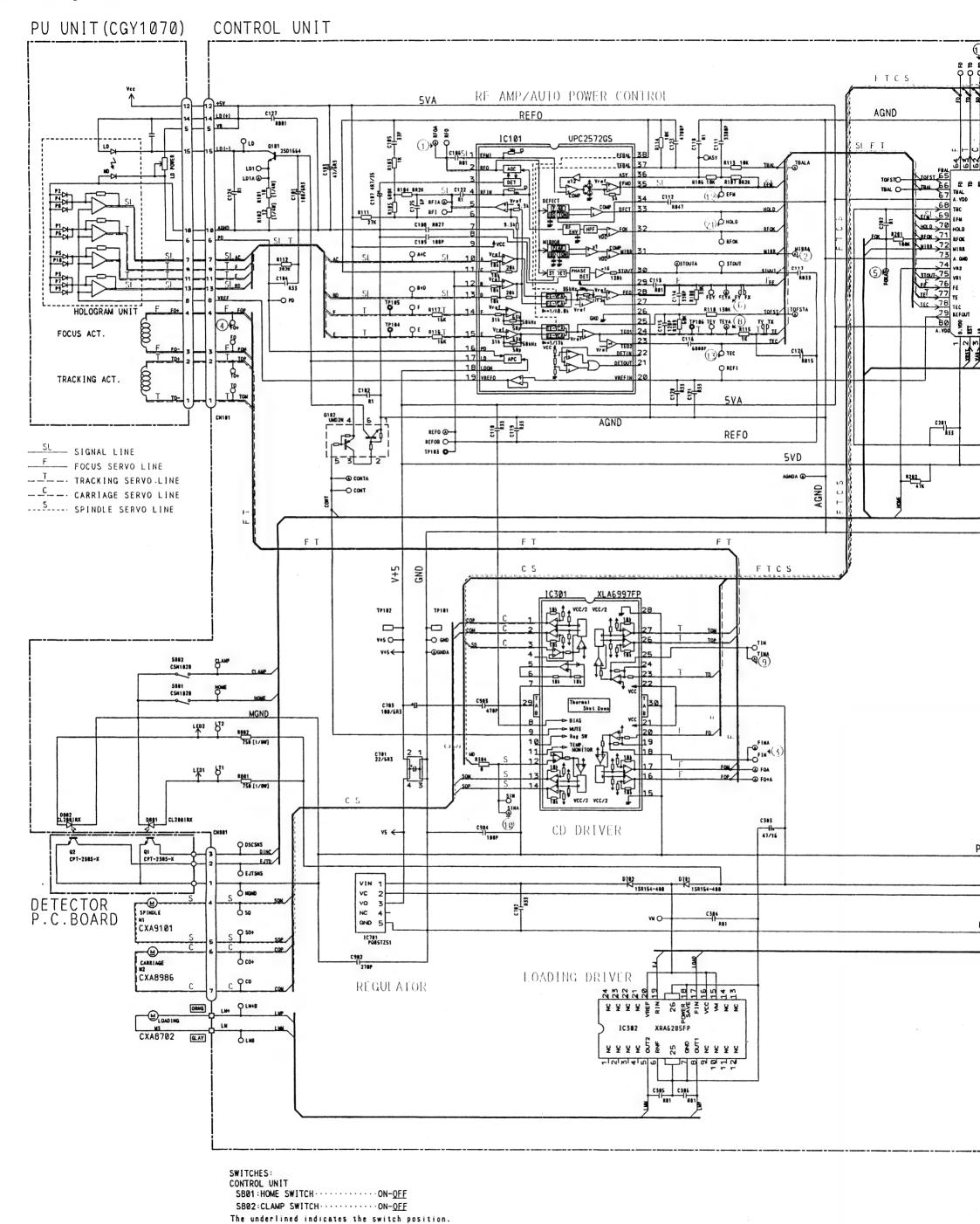
The parts mounted on this PCB include all necessary parts for several destinations.

For further information for respective destinations, be sure to check with the schematic diagram.

Fig.16



#### Circuit Diagram



71

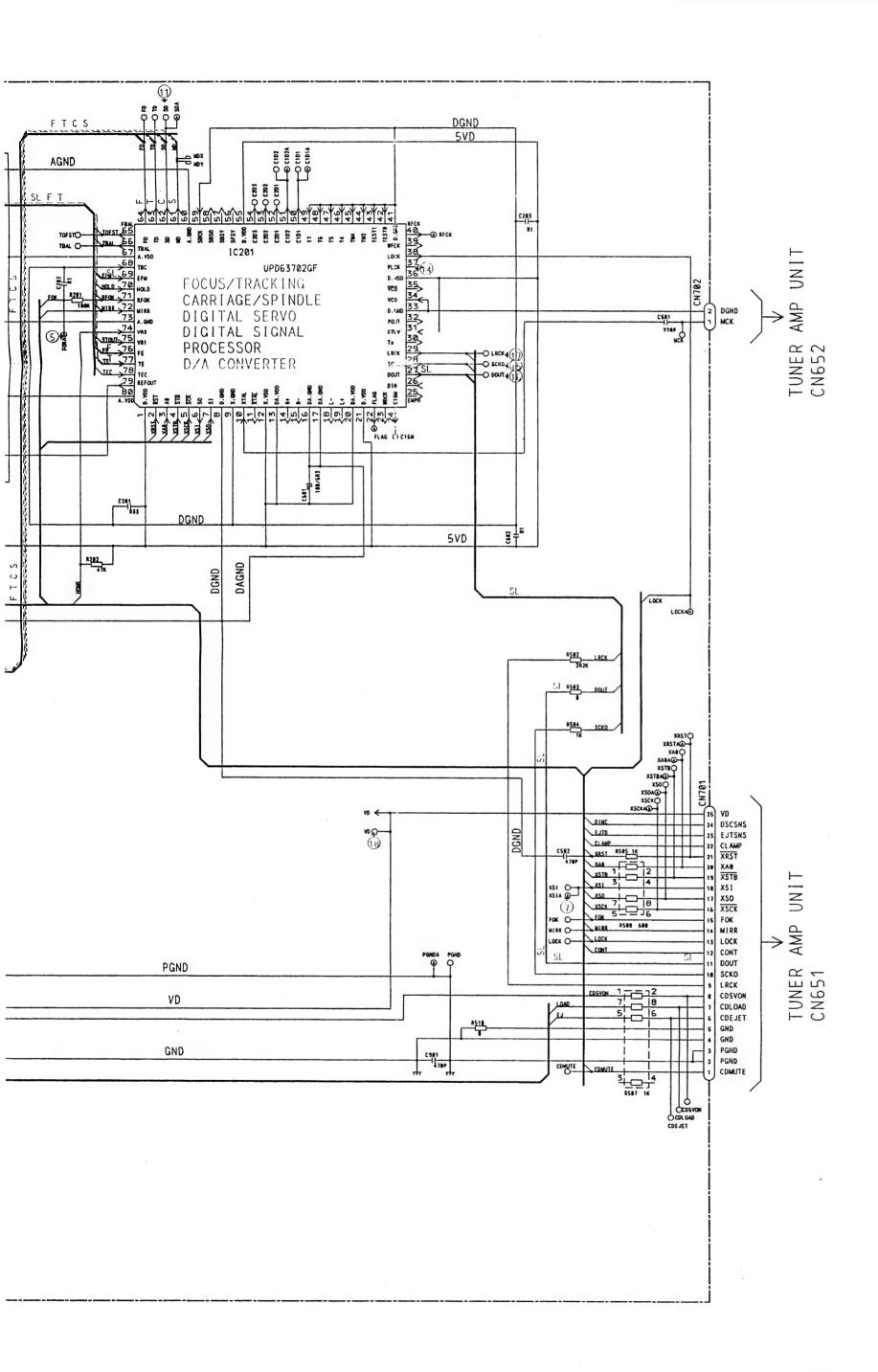


Fig.17

72

73

D

В

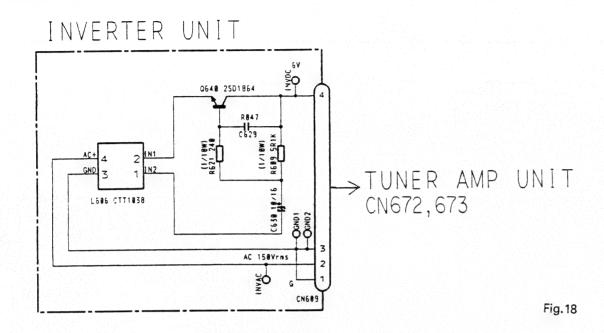
С

Ε

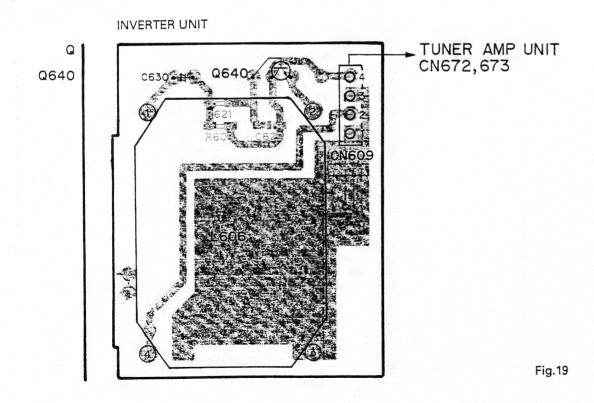
F

## 11.4 INVERTER UNIT

## Circuit Diagram



## Connection Diagram

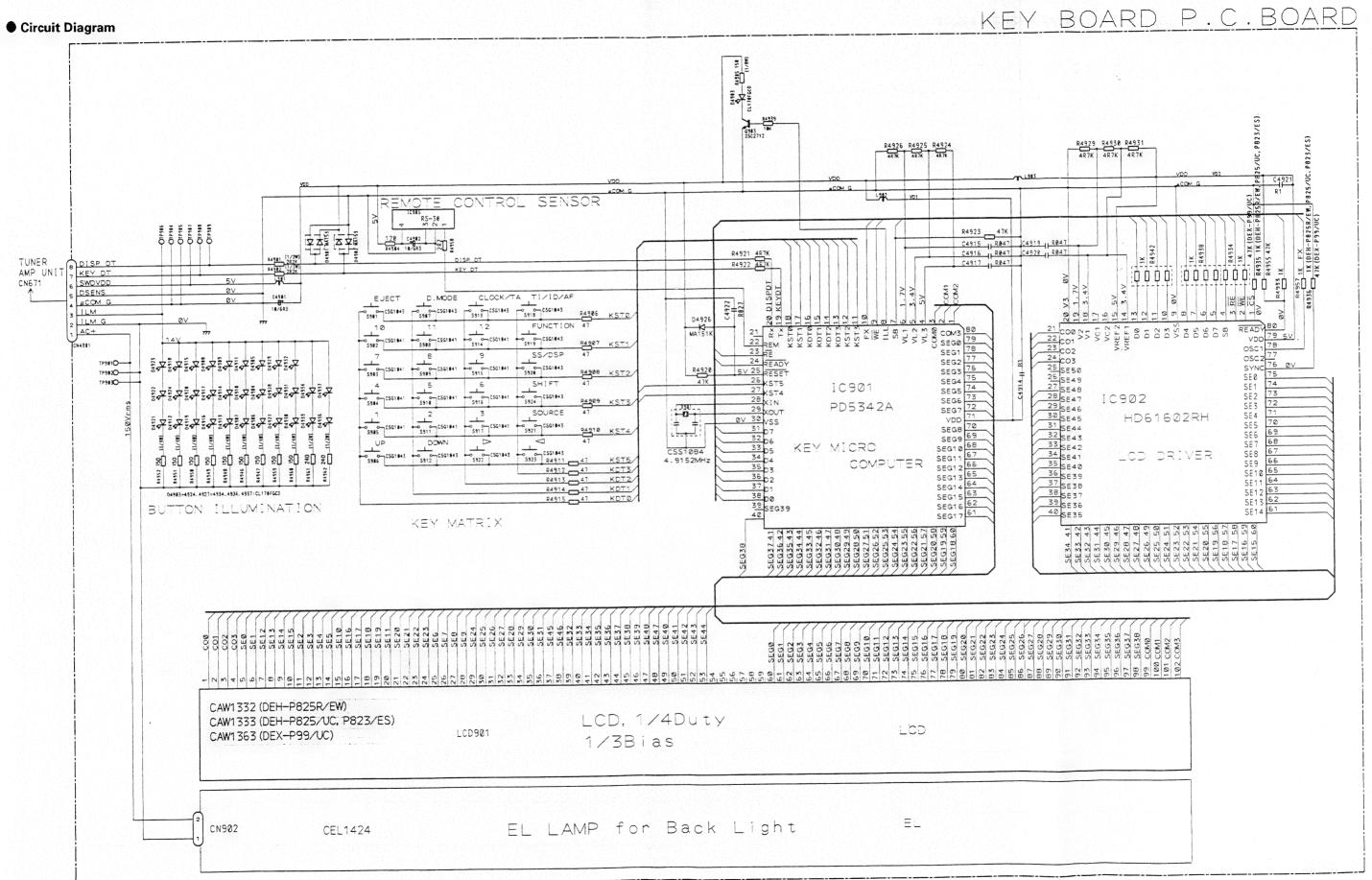


### 11.5 KEY BOARD P.C.BOARD

Connection Diagram

C. Q IC905 IC901 Q903 IC902

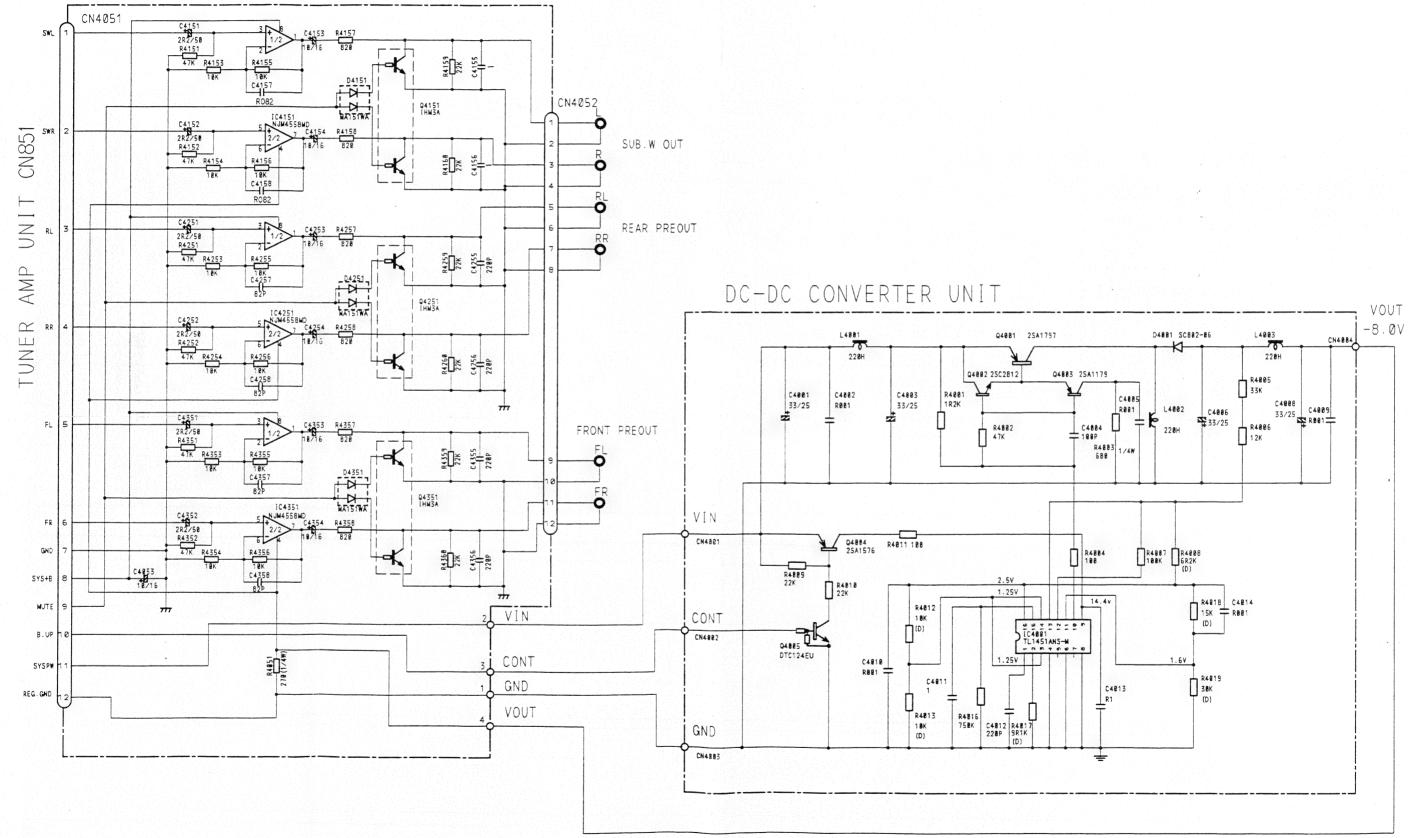
D4900 P1000 P



### 11.6 HIGH OUTPUT UNIT, DC-DC CONVERTER UNIT

● Circuit Diagram (DEX-P99/UC)

HIGH OUTPUT UNIT CN4051 SWL



#### Connection Diagram (HIGH OUTPUT UNIT)

Q4151 IC. Q IC4151 IC4251 Q4251

IC4351 Q4351

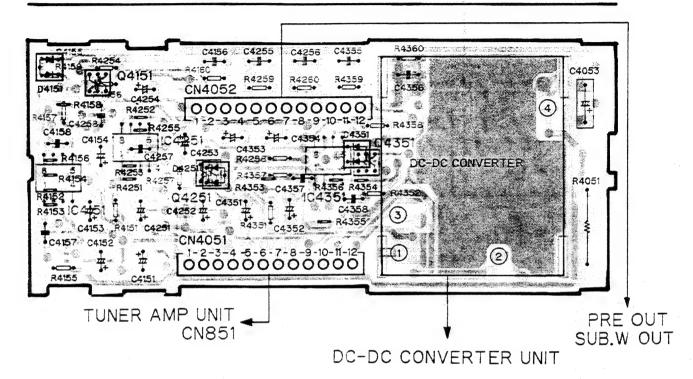


Fig.23

#### Connection Diagram(DC-DC CONVERTER UNIT)

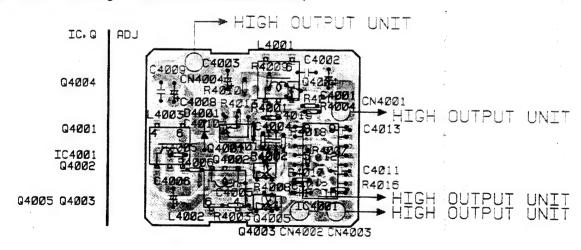
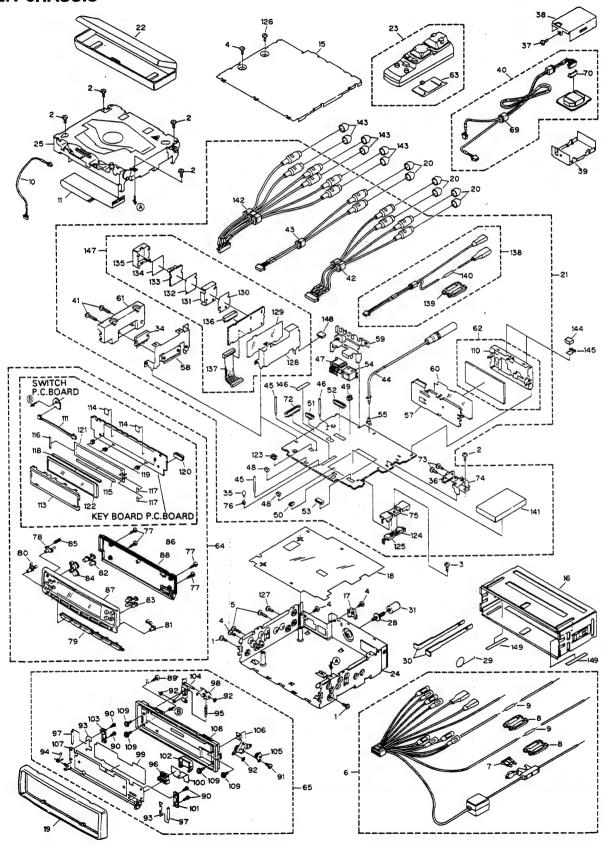


Fig.24

# 12. EXPLODED VIEW AND PARTS LIST

## 12.1 CHASSIS



NOTE:

Parts marked by "\*" are generally unavailable because they are not in our Master Spare Parts List.
 Parts List (DEH-P825R/EW)

, . . .

ark No	Description	Part No	Mark No	Description	Part No
1	Screw	BMZ30P040FMC	50	Plug(CN673)	CKS1236
	Screw	BSZ26P050FMC	51	Plug(CN882)	CKS1238
	Screw	BSZ26P080FMC	52	Plug(CN881)	CKS1242
_	Screw	BSZ30P060FMC		Connector(CN671)	CKS2212
	Screw	BMZ30P160FMC		Connector(CN451)	CKS2480
· ·					
6	Cord Assy	CDE4648		Mini Pin Jack(CN502)	CKX1046
7	Fuse(10A)	CEK1136		*****	
8	Cap	CNS1472	57	Holder	CNC6526
9	Resistor	RS1/2P102JL	58	Bracket	CNC6656
10	Cord	CDE4806	59	Bracket	CNC6558
11	Connector	CDE4864	60	Insulator	CNM4684
12-14		0021001	61	Heat Sink	CNR1408
	Case	CNB2063		FM/AM Tuner Unit	CWE1416
	Holder	CNC4946		Cover	CNS3477
	Holder	CNC4963		Detach Grille Assy	CXA8200
17	Holder	CNC4903	04	Detach Grine Assy	C/0-0200
18	Insulator	CNM4523		Panel Assy	CXA8711
19	Panel	CNS3113	66-68	*****	
20	Cap	CNV2680	69	Cord	CDE4998
21	Tuner Amp Unit	CWX1923	70	Plug(CN609)	CKS1224
	Case Assy	CXA7194	71	••••	
22	Remote Control Assy	CXA7610	72	Connector(CN651)	CKS2774
	Chassis Unit	CXA8212		Screw	BSZ30P060FN
	CD Mechanism Module	CXK5011		Holder	CNC6141
	••	CARSUTT		Holder	CNC6431
26-27 28	Screw	CBA1284		Holder	CNV1906
29	Spring	CBH-865	77	Screw	BPZ20P080FZ
30	Handle	CNC4947	78	Button(OPEN)	CAC4475
31	Bush	CNV1009	79	Button(1-12)	CAC4476
32-33			80	Button(SOURCE)	CAC4478
	IC(IC551)	PAL003A	81	Button(FUNCTION)	CAC4479
25	1 am = (1) C74)	CEL1150	92	Button(⊲,⊳,SHIFT)	CAC4481
	Lamp(IL671)			Button(SS,DM,AF,TA)	CAC4511
	IC(IC971)	PA2024A			CAC4648
	Screw	BSZ26P050FMC		Button(+,-)	
	Holder	CNC5735		Spring	CBH1844
39	Holder	CNC5736	86	Key Board Unit	CWM4471
40	Inverter Unit	CWM4531	87	Grille Unit	CXA8322
41	Screw ·	BSZ26P140FMC	88	Cover Unit	CXA8707
42	Cord	CDE4993	89	Screw	BPZ20P060FM
	Cord	CDE4995	90	Screw(M2x3)	CBA1082
44	Antenna Cable	CDH1146	91	Screw(M2x4)	CBA1176
45	Clamper	CEF1004	92	Washer	CBF1001
	Clamper	CEF1004		Spring	CBH1528
					CBH1660
	Plug(CN901)	CKM1187		Spring	
	Plug(CN652,674)	CKS-783		Spring	CBH1696 .
49	*****		96	Connector	CKS2780

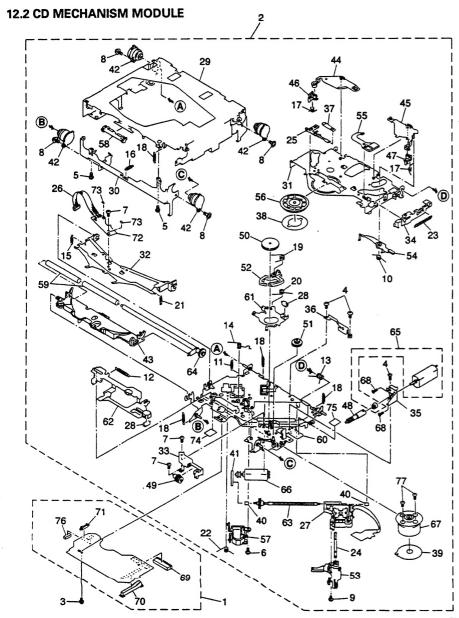
Mark No	Description	Part No	Mark No.	Description	Part No
	Roller	CLA2041	* 117	Spacer	CNM4753
	Arm	CNC5640		Connector	CNV4430
		CNM4179		Guide	CNV4431
	Sheet	CNP3847		Connector(CN4901)	CKS2733
	P.C.Board	_		EL(CN902)	CEL1424
101	Holder	CNV2141	121	EL(CI4302)	0001424
102	Cover	CNV3965	122	LCD(LCD901)	CAW1332
	Holder	CNV4105	123	Plug(CN672)	CKS1222
	Holder Unit	CXA7077	124	IC(IC991)	NJM78M05A
		CXA7159		Transistor(Q982)	2SD2396
	Damper Unit	CXA7794		Screw	BSZ30P060FMC
106	Holder Unit	CXA//94	120	JUIGH	50250. 000
107	Holder Unit	CXA7959	127-140	****	
	Panel Unit	CXA8708	141	DSP Module	CWV1062
	Screw	PMS20P030FZK	142,143	••••	
	Holder	CNC6555	144	Cushion	CNM4387
	Cord	CDE4387	145	Holder	CNC6469
112	••••		146-148	*****	
	Holder	CNC6142	* 149	Spacer	CNM4888
		CNM4349			
	Film	CNM4751		•	
	Spacer				
* 116	Spacer	CNM4752			

■ The DEH-P825/UC, DEH-P823/ES, and DEX-P99/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P825/UC Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P825R/EW Parts List is given on page 82.

		DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
Mark No.	Description	Part No.	Part No.	Part No.	Part No.
	Screw	BMZ30P160FMC	BMZ30P160FMC	BMZ30P160FMC	*****
	Cord Assy	CDE4648	CDE4976	CDE4648	*****
	Cord	****	****	****	CDE4970
-	Fuse(10A)	CEK1136	CEK1136	CEK1136	****
	Fuse(3A)	*****	•••••	••••	CEK1134
15	Case	CNB2063	CNB2063	CNB2063	CNB2055
	Сар	CNV2680	CNV2680	CNV2680	*****
	Tuner Amp Unit	CWX1923	CWX1924	CWX1926	CWX1925
	Chassis Unit	CXA8212	CXA8361	CXA8361	CXA8532
	IC(IC551)	PAL003A	PAL003A	PAL003A	
41	Screw	BSZ26P140FMC	BSZ26P140FMC	BSZ26P140FMC	
	Cord	CDE4993	CDE4993	CDE4993	****
	Cord	CDE4995	CDE4995	CDE4995	*****
	Plug(CN961)	*****	****	****	CKS1222
	Plug(CN882)	CKS1238	CKS1238	CKS1238	••••
52	Plug(CN881)	CKS1242	CKS1242	CKS1242	•••••
	Bracket	CNC6656	CNC6656	CNC6656	****
	Bracket	CNC6558	CNC6558	CNC6559	CNC6557
61		CNR1408	CNR1408	CNR1408	*****
	FM/AM Tuner Unit	CWE1416	CWE1417	CWE1417	CWE1417

		DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
Aark No.	Description	Part No.	Part No.	Part No.	Part No.
64	Detach Grille Assy	CXA8200	CXA8201	CXA8203	CXA8202
65	Panel Assy	CXA8711	CXA8711	CXA8711	CXA8327
79	Button(1-12)	CAC4476	CAC4544	CAC4545	CAC4544
83	Button(SS,DM,AF,TA)	CAC4511	*****	****	••••
83	Button(SS,DM,ID,CLOCK)	****	CAC4480	••••	••••
	Button(SS,DM,BSM,CLOCK)	••••		CAC4526	••••
83	Button(DSP,DM,ID,CLOCK)	••••	••••	••••	CAC4525
86	Key Board Unit	CWM4471	CWM4472	CWM4472	CWM4473
87	Grille Unit	CXA8322	CXA8323	CXA8325	CXA8324
108	Panel Unit	CXA8708	CXA8708	CXA8708	CXA8347
122	LCD(LCD901)	CAW1332	CAW1333	CAW1333	CAW1363
126	Screw	BSZ30P060FMC	BSZ30P060FMC	BSZ30P060FMC	••••
127	Screw	••••	••••	****	BSZ30P060FMC
128	Holder	••••	••••	****	CNC6143
129	Insulator	•••••	••••	••••	CNM4573
130	Insulator	•••••	••••	••••	CNM4760
	Shield	*****	••••	****	CNC6274
	Insulator	*****	*****	****	CNM4814
133	DC-DC Converter Unit	****	*****	****	CWM4538
134	Insulator	*****		•••••	CNM4610
	Shield	••••		••••	CNC6224
	Plug(CN4052)	*****	••••	****	CKS1059
	Cord(CN4051)	*****	••••	****	CDE4807
	Cord	*****	••••	****	CDE4786
139	Сар	*****		•••••	CNS1472
	Resistor	*****	•••••	••••	RS1/2P102JL
142	Cord	•••••	****	****	CDE4801
	Cap	*****	•••••	****	CNV2680
	Insulator	*****	•••••	••••	CNM4815
147	High Output Unit	*****	••••	*****	CWX1922
148	Spacer	****	••••	••••	CNM4868

## DEH-P825R,P825,P823,DEX-P99



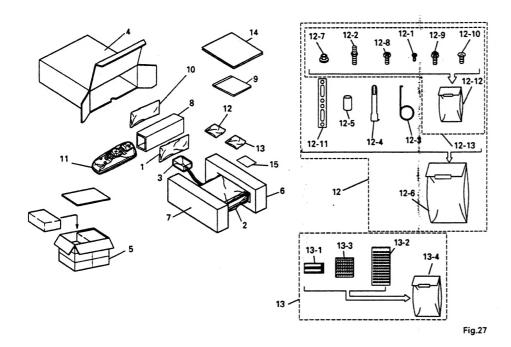
#### ● Parts List

1114

Mark I	No. Description	Part No.	Mark No. Des
	1 Control Unit	CWX1964	46 Am
	2 CD Mechanism Unit	CXA8880	47 Am
	3 Screw	PMS26P035FMC	48 Gea
	4 Screw	BMZ20P030FMC	49 Gea
	5 Screw	BSZ20P040FMC	50 Ge:
	6 Screw(M2×3)	CBA1077	51 Ge:
	7 Screw(M2×2)	CBA1250	52 Arr
	8 Screw(M2×5)	CBA1296	53 Hol
	9 Screw(M2×3.85)	CBA1362	54 Arr
	10 Spring	CBH1916	55 Arr
	11 Spring	CBH1724	56 Cla
	12 Spring	CBH1727	57 Ho
	13 Spring	CBH1729	58 Gu
	14 Spring	CBH1730	59 Ro
	15 Spring	CBH1731	60 Ch
	16 Spring	CBH1732	61 An
	17 Spring	CBH1736	62 Lev
	18 Spring	CBH1745	63 Sc
	19 Spring	CBH1832	64 Ge
	20 Spring	CBH1833	65 Lo
	21 Spring	CBH1848	66 CR
	22 Spring	CBH1849	67 M
	23 Spring	CBH1863	68 Sc
	24 Spring	CBL1214	69 Co
	25 Spring	CBL1269	70 Co
	26 Connector(CN1)	CDE4576	71 Co
	27 PU Unit	CGY1070	* 72 Ga
	28 Roller	CLA2627	73 Ph
	29 Frame	CNC5796	74 Sh
	30 Frame	CNC5797	75 Cu
	31 Arm	CNC5799	76 Co
*	32 Arm	CNC5801	77 Sc
	33 Bracket	CNC5871	
	34 Lever	CNC6054	
	35 Bracket	CNC6056	
*	36 Bracket	CNC6376	
	37 Spacer	CNM3315	
	38 Sheet	CNM4849	
	39 P.C.Board	CNP4230	
	40 Bearing	CNR1415	
-	41 Belt	CNT1071	
	42 Damper	CNV3974	
	43 Arm	CNV4120	
	44 Arm	CNV4122	
	45 Arm	CNV4123	

Mark	No.	Description	Part No.
	46	Arm	CNV4124
	47	Arm	CNV4125
	48	Gear	CNV4128
	49	Gear	CNV4129
	50	Gear	CNV4130
	51	Gear	CNV4131
	52	Arm	CNV4136
	53	Holder	CNV4663
	54	Arm	CNV4138
	55	Arm	CNV4139
		Clamper	CNV4140
		Holder	CNV4664
		Guide	CNV4484
		Roller	CNV4509
	60	Chassis Unit	CXA8561
		Arm Unit	CXA8565
		Lever Unit	CXA8567
		Screw Unit	CXA8699
		Gear Unit	CXA8701
	65	Load Motor Unit(M3)	CXA8702
	66	CRG Motor Unit(M2)	CXA8986
		Motor Unit(M1)	CXA9101
		Screw	JFZ20P025FMC
		Connector(CN101)	CKS1953
		Connector(CN701)	CKS2774
	71	Connector(CN801)	CKS2196
*	72	Gathering P.C.Board	CNX2445
	73	Photo-transistor(Q1, 2)	CPT-230S-X
	74	Sheet	CNM4873
	75	Cushion	CNM3917
	76	Connector(CN702)	CKS2191
	77	Screw	JGZ17P025FZK

#### 13. PACKING METHOD



## Owner's ManualInstallation Manual

- matamation	manual	
Part No.	Model	Language
CRD1928	DEH-P825R/EW	English,Spanish
CRD1929	DEH-P825R/EW	German,French
CRD1989	DEH-P825R/EW	Italian,Dutch
CRD2034	DEH-P825R/EW	English, Italian, French, German, Dutch, Spanish
CRD1931	DEH-P825/UC	English,French
CRD1979		1
CRD1932	DEH-P823/ES	English, Arabic
CRD1980	DEH-P823/ES	English,French,Spanish,Arabic
CRD1990	DEH-P823/ES	French, Spanish
CRD1930	DEX-P99/UC	English,French
CRD1978		

#### Parts List

\*:Non Spare Part

					*:Non Spare Part
		DEH-P825R/EW	DEH-P825/UC	DEH-P823/ES	DEX-P99/UC
	Description	Part No.	Part No.	Part No.	Part No.
1	Cord Assy	CDE4648	CDE4976	CDE4648	••••
	Cord	****	••••	****	CDE4970
2	Polyethylene Bag	CEG-162	CEG1173	CEG-162	CEG1173
3	Air Cushioned Bag	CEG1192	CEG1192	CEG1192	CEG1192
4	Carton	CHG2831	CHG2834	CHG2832	CHG2833
5	Contain Box	CHL2831	CHL2834	CHL2832	CHL2833
6	Protector(R)	CHP1766	CHP1766	CHP:1766	CHP1766
7	Protector(L)	CHP1767	CHP1767	CHP1767	CHP1767
	Spacer	CHW1433	CHW1433	CHW1433	CHW1433
	CD	CPJ1004	****	CPJ1004	*****
•	CD	0.31004		CI 3 1004	1
10	Case Assv	CXA7194	CXA7194	CXA7194	CXA7194
	Remote Control Assy	CXA7610	CXA7610		
	Accessory Assy			CXA7610	CXA7610
		CEA2065	CEA2066	CEA2067	CEA2066
	Screw(M2x6)	CBA1120	CBA1120	CBA1120	CBA1120
12-2	Screw	CBA1284	CBA1284	CBA1284	CBA1284
	Spring	CBH-865	CBH-865	CBH-865	CBH-865
	Handle(x2)	CNC4947	CNC4947	CNC4947	CNC4947
	Bush	CNV1009	CNV1009	CNV1009	CNV1009
	Polyethylene Bag	E36-615	CEG-158	CEG-158	CEG-158
12-7	Nut(x2)	••••	NF50FMC	****	NF50FMC
	Screw(x4)	****	TRZ50P080FMC	TRZ50P080FMC	TRZ50P080FMC
12-9	Screw	••••	CBA-102	••••	CBA-102
12-10	Screw(x4)	••••	CRZ50P090FMC	CRZ50P090FMC	CRZ50P090FMC
12-11	Strap	••••	CNF-111	****	CNF-111
* 12-12	Polyethylene Bag	****	CEG-127	CEG-127	CEG-127
12-13	Screw Assy	••••	CEA2068	CEA2069	CEA2068
13	Accessory Assy	CEA2081	CEA2081	CEA2081	CEA2081
13-1	Battery	CEX1006	CEX 1006	CEX1006	CEX1006
13-2	Fastener(Soft)	CNM3729	CNM3729	CNM3729	CNM3729
13-3	Fastener(Rough)(x2)	CNM4256	CNM4256	CNM4256	CNM4256
	<b>3.,,,</b>			0.1111.4200	0.411.4230
* 13-4	Polyethylene Bag	E36-615	E36-615	E36-615	E36-615
	Polyethylene Bag	CEG1116	CEG1116	CEG1116	CEG1116
	Owner's Manual	CRD1928	CRD1931	CRD1932	CRD1930
	Owner's Manual	CRD1929	CND 193 1	CRD 1932	CKD 1930
	Installation Manual	CRD1929	CRD1979	CRD1980	
14-4	materiauvii ivialiual	CND2034	ביפוטח	CUD 1980	CRD1978
14.5	Owner's Manual	CRD1989	<b></b>	CRD1990	
	Passport				••••
	Warranty Card	CRY1013		••••	•••••
* 14-7 * 14-8		CRY1087		••••	CRY1070
			ARY1048	•••••	••••
14-9	Chart	*****	CRB1375	****	CRB1374
	0				
	Caution Card	••••	*****	****	CRP1144
* 15	Caution Card	CRP1145	CRP1145	CRP1145	CRP1145



# Service Manual

ORDER NO. CRT1821

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

XIB/EW



● This additional service manual is designed to be used together with Model DEH-P825R/EW Service Manual CRT1805. Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual.

#### **PACKING METHOD**

Parts List(Page 88)

#:Non Spare Part

			DEH-P825R/EW	DEH-P825R/X1B/EW
Mark	No.	Description	Part No.	Part No.
	1	Cord Assy	CDE4648	UDE4648
	2	Polyethylene Bag	CEG-162	UEG-002
	4	Carton	CHG2831	UHG-045
	5	Contain Box	CHL2831	UHD-002
	6	Protector(R)	CHP1766	UHP-009
	7	Protector(L)	CHP1767	1
	12	Accessory Assy	CEA2065	UEA2065
	12-4	Handle(x2)	CNC5395	CNC4947
*	12-6	Polyethylene Bag	E36-615	CEG-127
	13	Accessory Assy	CEA2081	UEA2081
	13-1	Battery	CEX1006	UEX1006
	13-2	Fastener(Soft)	CNM3729	UNM3729
	13-3	Fastener(Rough)(x2)	CNM4256	UNM4256
	14-1	Polyethylene Bag	CEG1116	UEG1116
	14-2	Owner's Manual	CRD1928	URD1928
	14-3	Owner's Manual	CRD1929	URD1929
	14-4	Installation Manual	CRD2034	URD2034
	14-5	Owner's Manual	CRD1989	URD1989
	14-6	Passport	CRY1013	# CRY1014
*	14-7	Warranty Card	CRY1087	URY1087
*		Caution Card	CRD1145	URP1145

PIONEER ELECTRONIC CORPORATION 4-1. Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

PIONEER ELECTRONICS SERVICE INC. P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.

PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTELITD. 501 Orchard Road, #10-00, Lane Crawford Place, Singapore 0923

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(I) PIONEER

# Service Manual

1 5 4

ORDER NO. CRT1821

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH RDS TUNER

XIB/EW



● This additional service manual is designed to be used together with Model DEH-P825R/EW Service Manual CRT1805. Refer to it for finding parts numbers and adjustment, etc. which are not shown in this manual. 483/# 2005/62

#### **PACKING METHOD**

Parts List(Page 88)

#:Non Spare Part

			DEH-P825R/EW	DEH-P825R/X1B/EW
Mark	No.	Description	Part No.	Part No.
	1	Cord Assy	CDE4648	UDE4648
1	2	Polyethylene Bag	CEG-162	UEG-002
1	4	Carton	CHG2831	UHG-045
	5	Contain Box	CHL2831	UHD-002
	6	Protector(R)	CHP1766	UHP-009
	_			1
	7	Protector(L)	CHP1767	
	12	_ Accessory Assy	CEA2065	UEA2065
	12-4	_ Handle(x2)	CNC5395	CNC4947
*	12-6	⇒ Polyethylene Bag	E36-615	CEG-127
	13	: Accessory Assy	CEA2081	UEA2081
	13-1	Battery	CEX1006	UEX1006
	13-2	<ul> <li>Fastener(Soft)</li> </ul>	CNM3729	UNM3729
	13-3	Fastener(Rough)(x2)	CNM4256	UNM4256
	14-1	Polyethylene Bag	CEG1116	UEG1116
	14-2	- Owner's Manual	CRD1928	URD1928
	14-3	Owner's Manual	CRD1929	URD1929
	14-4	Installation Manual	CRD2034	URD2034
	14-5	Owner's Manual	CRD1989	URD1989
	14-6	Passport	CRY1013	# CRY1014
*	14-7	Warranty Card	CRY1087	URY1087
*		Caution Card	CRD1145	URP1145

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#### DEH-P825R

# ELECTRICAL PARTS LIST ● Parts List(Page 29)

Tuner Amp Unit

	DEH-P825R/EW	DEH-P825R/X1B/EW
Circuit Symbol & No.	Part No.	Part No.
D502,672,941,991	MA151WK	DAN202K
S601	CSG1046	USG1046
C880	CSZSR100M10	****

Key Board Unit

	DEH-P825R/EW	DEH-P825R/X1B/EW
Circuit Symbol & No.	Part No.	Part No.
R4946.4947.4948.4949.4950	R\$1/4S151J	RS1/4S391J
R4951,4952,4959,4960	RS1/4S151J	RS1/4S391J
R4961,4962	RS1/2S241J	RS1/2S471J

#### **EXPLODED VIEW AND PARTS LIST** CHASSIS

Parts List(Page 82)

			DEH-P825R/EW	DEH-P825R/X1B/EW
Mark	No.	Description	Part No.	Part No.
	6	Cord Assy	CDE4648	UDE4648
l	21	Tuner Amp Unit	CWX1923	UWX1923
1	25	CD Mechanism Module	CXK5011	UXK5011
1	30	Handle	CNC5395	CNC4947
	40	Inverter Unit	CWM4531	UWM4531
	44	Antenna Cable	CDH1146	UDH1146
1	64	Detach Grille Assy	CXA8200	UXA8200
l	65	Panel Assy	CXA8711	UXA8711
	86	Key Board Unit	CWM4471	UWM4471
	111	Cord	CDE4387	UDE4387
	118	Connector	CNV4430	UNV4430

#### CD MECHANISM MODULE

Parts List(Page 86)

			DEH-P825R/EW	DEH-P825R/X1B/EW
Mark	No.	Description	Part No.	Part No.
	1	Control Unit	CWX1964	UWX1964

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#### **DEH-P825R**

#### **ELECTRICAL PARTS LIST**

Parts List(Page 29)

Tuner Amp Unit

	DEH-P825R/EW	DEH-P825R/X1B/EW	
Circuit Symbol & No.	Part No.	Part No.	
D502,672,941,991	MA151WK	DAN202K	
S601	CSG1046	USG1046	
C880	CSZSR100M10	****	

Key Board Unit

	DEH-P825R/EW	DEH-P825R/X1B/EW
Circuit Symbol & No.	Part No.	Part No.
R4946,4947,4948,4949,4950	RS1/4S151J	RS1/4S391J
R4951,4952,4959,4960	RS1/4S151J	RS1/4S391J
R4961,4962	RS1/2S241J	RS1/2S471J

## **EXPLODED VIEW AND PARTS LIST** CHASSIS Parts List(Page 82)

			DEH-P825R/EW	DEH-P825R/X1B/EW
Mark	No.	Description	Part No.	Part No.
	6	Cord Assy	CDE4648	UDE4648
	21	Tuner Amp Unit	CWX1923	UWX1923
	25	CD Mechanism Module	CXK5011	UXK5011
	30	Handle	CNC5395	CNC4947
	40	Inverter Unit	CWM4531	UWM4531
	44	Antenna Cable	CDH1146	UDH1146
	64	Detach Grille Assy	CXA8200	UXA8200
	65	Panel Assy	CXA8711	UXA8711
	86	Key Board Unit	CWM4471	UWM4471
	111	Cord	CDE4387	UDE4387
	118	Connector	CNV4430	UNV4430

#### CD MECHANISM MODULE

Parts List(Page 86)

	Description	DEH-P825R/EW	DEH-P825R/X1B/EW Part No.
Mark No.		Part No.	
1	Control Unit	CWX1964	UWX1964